

FISH AND SEDIMENT STUDY

Schlumberger Limited

Lake Hartwell 2001 Fish and
Sediment Study
*Operable Unit 2 ROD
Monitoring Program*

November 2001

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Environmental Resources Management

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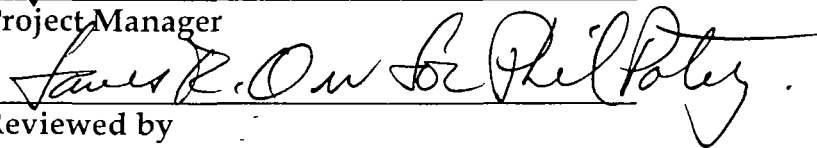
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Reviewed by

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EXECUTIVE SUMMARY

Annual monitoring of PCBs in sediments, fish tissues, and *Corbicula fluminea* (*Corbicula*) samples has been conducted since 1995 as part of post-ROD monitoring of Operable Unit 2 (Lake Hartwell) of the Sangamo Weston Superfund site. This report presents the results of the year 2001 monitoring effort. PCB concentrations were analyzed in sediment samples collected in April and May 2001 from 21 stations throughout the study area, including the Twelvemile Creek watershed (six locations) and Lake Hartwell (ten locations in the Twelvemile Creek and Seneca River Arm and five in the main body of Lake Hartwell). In addition, a 28-day *Corbicula* study was conducted at seven locations in the Twelvemile Creek area. Lastly, a total of 153 fish samples, representing largemouth bass, hybrid bass, channel catfish, bluegill, threadfin shad, and gizzard shad were collected from six locations in Lake Hartwell during April and May 2001.

The surficial sediment and fish data collected in 2001 are consistent with general patterns observed over the past several years where PCB concentrations have decreased since 1995. This decrease has been observed with increasing distance from the Twelvemile Creek Arm of Lake Hartwell where PCBs originally reached the lake as well as throughout the entire lake.

The average concentration of PCBs in sediment in the 18 stations located in the Seneca River Arm of Lake Hartwell are generally lower in 2001 than in 2000. The 2001 sampling also indicate a continued decrease from 1995 of residual PCBs in the sediments of free-flowing stream portion of Twelvemile Creek upstream of the lake.

A comparison of the 2001 results to the historic values discussed in the 1993 RI Report show the concentrations of PCBs decreased in the upper Twelvemile Creek area, indicating a flushing of the free flowing section of Twelvemile Creek. Concentrations in other portions of Twelvemile Creek and in tributaries below Town Creek were lower than the historic values. In the lower Twelvemile Creek area, total PCB concentrations range from less than 0.06 ppm (detection limit) to a maximum concentration of 5.73 ppm at SD012. The 2001 values were lower than historic findings. The maximum concentration of 5.73 ppm was considerably lower than the maximum of 12.3 ppm reported in 2000.

Approximately 50 *Corbicula* were placed in baskets at each of the seven locations in Twelvemile Creek downstream of the plant site. *Corbicula* are

a sensitive indicator of PCB bioaccumulation in the water column. Samples were analyzed for PCBs following the 28-day field exposure period. Concentrations in organisms collected in 2001 showed decreases over 1995-2000 levels, particularly at Twelvemile Creek stations C-3 and C-5. The concentration in *Corbicula* at station C-6, the most downstream location, was similar to the 2000 value, which was considerably lower than the four previous surveys.

PCB concentrations in the tissues of forage fish species (bluegill, gizzard shad, and threadfin shad) showed decreasing concentrations with increasing distance from the Twelvemile Creek Arm. In addition, concentrations detected in 2001 were generally lower than 1995-2000 levels.

PCB concentration of fish tissue in the mobile hybrid bass do not show a consistent spatial pattern. These predatory fish range over the entire lake, and consume prey that reside in different areas with a range of PCB concentrations. However, PCB concentrations have consistently declined over time at all stations from the high levels observed in the early to mid-1990s. While the concentration of PCB in hybrid bass tissue was higher at station SV107 than previous years, this may be due to the unseasonably low water levels which may have reduced movement of this species and increased their exposure to sediments in the Twelvemile Creek Arm of Lake Hartwell. A return of normal rainfall and water level may reduce the exposure of hybrid bass to PCBs at this location.

PCB concentrations in the tissues of less mobile gamefish species (largemouth bass and channel catfish) consistently show a spatial pattern of decreasing concentration with distance from the Twelvemile Creek Arm. Temporally, channel catfish tissue concentrations have decreased at all stations from the high values of the early to mid-1990s. Only 1 of 24 catfish collected in 2001 exceeded the FDA tolerance value of 2.0 ppm. Largemouth bass show a pattern of decreasing tissue concentrations from the sample location at the Twelvemile Creek Arm of the Lake to the stations located downstream toward the dam. Although the majority of the bass sampled around the lake are below the FDA tolerance level of 2.0 ppm, the fish that exceed the tolerance are concentrated in the Twelvemile Creek Arm. The concentration of PCB in largemouth bass tissue at SV107 was reduced from the concentration detected in 2000.

Although PCB concentrations in the 2001 sediment and fish tissue samples have decreased greatly relative to the historical data collected in the early to mid-1990s, some 2001 data showed increases in PCB concentrations over samples collected from the same stations in 2000. However, sporadic increases in PCB concentration, at some stations, are expected along with

the overall downward trend in concentration. The low water levels in the lake appear to have increased the exposure of some fish species to the depositional sediments, and a potential increase in turbidity due to the shallower depth. The most apparent effects of the low water level were observed in the sediments and some of the resident fish species in the historic sediment deposition zone in the upper and middle Twelvemile Creek Arm of the lake.

Although this report discusses observations on apparent "trends" in various data sets, and makes observational comparisons of differences from one year's samples to the next, such conclusions about apparent trends are not rigorous because the data have not been subjected to any formal statistical analysis. The monitoring program implemented since 1995 was designed to assemble 10 or more years of data, which would then be subjected to statistical time series analyses, trend analyses, ANOVA testing or other methods that would take full advantage of the statistical power of the full data ensemble. Less rigorous analyses such as *t*-test comparisons between samples from adjacent years are not appropriate because of the inherent variability of the data, and the fact that the number of replicate samples is too small for such pairwise testing.

During 1976, the South Carolina Department of Health and Environmental Control (SCDHEC) and the United States Environmental Protection Agency (U S EPA) discovered that fish from certain areas of Lake Hartwell (Anderson, Pickens and Oconee Counties) contained polychlorinated biphenyls (PCBs) at concentrations greater than the United States Food and Drug Administration (U S FDA) tolerance levels. This contamination was above the safe tolerance level for consumption of fish by humans established by the United States Food and Drug Administration (U.S. FDA). Subsequent to these findings, a fish consumption advisory was issued by the SCDHEC for portions of Lake Hartwell as a conservative measure to reduce human exposure.

The SCDHEC has conducted yearly studies in Lake Hartwell since 1976 to evaluate the level of PCB contamination in fish. The primary focus of these studies has been to gather PCB data for yearly updates in the fish consumption advisory. Annual results are available through 1993.

During 1990, portions of Lake Hartwell became eligible for Superfund clean-up funds under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) of 1980, as amended by the Superfund Amendments and Reauthorization Act (SARA) of 1986. As a part of the June 1994 Final Record of Decision (ROD), aquatic biota monitoring and sediment sampling were required. The aquatic biota monitoring includes a comprehensive fish tissue study, which involves fish tissue sampling similar to the historic annual monitoring by the SCDHEC and a *Corbicula* tissue study.

Summarized in this report are the results of the year 2001 fish tissue, *Corbicula*, and sediment study of Lake Hartwell. In addition, fish tissue data collected by the State of South Carolina, Savannah District Corps of Engineers (COE), and ERM from 1990 to present are included in bar charts to identify potential trends in PCB concentrations.

Sediment, *Corbicula*, and fish sampling was conducted in accordance with the procedures prescribed in the Final Record of Decision dated June 1994, and in coordination with SCDHEC, the Savannah District Corps of Engineers, and U.S. EPA Region IV. Mr. Butch Younginer of SCDHEC, Mr. Andy Gaston of the Savannah COE, and the South Carolina Fish and Game Commission were notified prior to sampling. Representatives from each agency did not request to participate in the sampling.

All fish, *Corbicula* and sediment samples were analyzed by EPA SW-846 Method 8082 for PCBs. In the field, composite samples of surficial sediments were collected across the channel at each station with a ponar dredge (sampling surficial sediment to a maximum depth of approximately six inches) in the lake, while grab samples from depositional areas of fine silt material were collected in the stream stations. Both PCBs and total organic carbon (TOC) were analyzed from each sample in order to determine the correlation between PCB concentrations and organic material in the surficial sediment.

Sediment samples were collected with a petite ponar dredge on April 26 and April 27, 2001. Rainfall had been very low during April and both Town Creek and Twelvemile Creek water elevations were lower than normal. The dredge has a six-inch by six-inch opening and in soft sediments, it will collect to a depth of approximately six inches. Five grab samples were collected across the channel (typically bank to bank of the river channel) at each open water location, and individual grab samples were collected in the Twelvemile Creek stream locations. Composite samples were thoroughly mixed in an aluminum container prior to sampling with a clean stainless steel spoon. Each sample consisted of two, four-ounce glass jars, one sample for PCB analysis and the other for total organic carbon (TOC). Samples were immediately placed on ice to provide required temperature through sample delivery.

Field sampling equipment was decontaminated between sample stations using a detergent wash, deionized rinse, pesticide grade isopropanol rinse, and another deionized rinse. For the sediment samples, equipment rinse blanks and trip blanks were collected each day. In addition, two duplicates were collected for a total of 23 sediment samples. Samples were shipped on ice overnight to Northeast Analytical Laboratory (NEA) in Schenectady New York.

A total of seven sample locations were utilized for the analysis of bioconcentration of PCBs in *Corbicula* tissue. Reference organisms were collected from Wolf Creek and transported the same day to the other test locations. Wolf Creek was selected as the reference location because of low PCB concentrations detected in the past, the great abundance of *Corbicula* at this location, and a minimal handling time. *Corbicula* were retrieved after 28 days of incubation (April 26 through May 24, 2001), placed in labeled plastic bags, stored directly on ice, and transported to the ERM laboratory. Baskets were collected from each site with no mortalities noted. Organisms were transported to the ERM laboratory on ice and then frozen. After freezing to euthanize the *Corbicula*, samples were dissected at ERM and tissue samples were shipped to NEA for analyses.

Fish targeted for sampling included largemouth bass (*Micropterus salmoides*), hybrid bass (*Morone* sp.), channel catfish (*Ictalurus punctatus*), bluegill (*Lepomis macrochirus*), gizzard shad (*Dorosoma cepedianum*) and threadfin shad (*Dorosoma petenense*).

Fish were collected at the six sample locations from April 16 through April 27, and four hybrid bass were collected on May 9 from SV107 due to the lack of success in collecting this species during April. Fish were collected by electrofishing and gill netting techniques. Fish were kept on wet ice from the time of sample collection to dissection. After sample collection, fish weight (g) and length (mm) were measured and recorded in a logbook prior to fillet collection. Data recorded for each sample included species, location, weight, length, date, sex, grab or composite sample type, and sample number. Fillets were collected with a pre-cleaned stainless steel fillet knife. Prior to fillet sampling, fish were placed on a table covered with clean sheets of aluminum foil. Foil was changed between fish species and stations. All fillets and whole fish samples were wrapped in aluminum foil (dull side to the tissue), placed in a zip-lock or plastic bag, labeled and placed on ice. Samples were sent to the analytical laboratory on wet ice, rather than frozen, to facilitate sample preparation and reduce sample handling. Fat deposits and viscera were removed from each fillet rib cage prior to wrapping of the sample. The sampling equipment was decontaminated with detergent wash, pesticide grade isopropanol rinse, and deionized water rinse between each species and station. Equipment rinse blank and trip blank samples were collected every 20 samples for quality control purposes. One in 20 samples was identified for duplicate analysis and split from the sample in the laboratory after grinding. One matrix spike and matrix spike duplicate was tested for every 20 samples tested. The size class range of fish included:

Largemouth bass	1 5-3 0 lbs. (680-1,361 g)
Channel catfish	1 5-4.0 lbs. (680-1,814 g)
Hybrid bass	3.0-5 0 lbs (1,361-2,268 g)
Bluegill	3-5 inches (76-127 mm)
Gizzard shad	>12 inches (>305 mm)
Threadfin shad	>3 inches (>76 mm)

Fish were sent overnight by Federal Express to NEA in Schenectady, New York, a South Carolina-certified laboratory. The fish samples were received at or below 4° Celsius.

SEDIMENTS

Table 1 summarizes the 21 sediment samples collected in April and May of 2001 (see Appendix A for individual results). Figures 1 and 2 depict the sediment sample locations and PCB concentrations for 2001 data in Lake Hartwell and the Twelvemile Creek watershed, respectively. Sediment values ranged from non-detected levels observed in the Wolf Creek and Town Creek tributaries of Twelvemile Creek to 5.73 ppm collected at SD-012 in the Twelvemile Creek Arm. PCB concentrations generally decreased in an upstream direction from the maximum value detected in 2001 of 5.73 ppm to a concentration of 0.5835 ppm near Maw Bridge (SD-006). The concentrations in Twelvemile Creek upstream of Lake Hartwell ranged from <0.0638 ppm to 2.56 ppm (SD-000 to SD-005). The maximum concentration (2.56 ppm) detected in 2001 in the free-flowing section was reported in Town Creek downstream of the historic Sangamo discharge (SD-001). A value of <0.064 ppm was reported for the station upstream of the outfall in Town Creek (SD-000). The concentration of PCBs downstream of the outfall was much lower in 2001 than previous years with the maximum concentration detected in 2001 approximately 1.0 ppm lower than the 2000 maximum (3.87 ppm). PCB concentrations also declined in a downstream direction from the maximum value in the Twelvemile Arm (SD-012) to a concentration of less than <0.191 (station SD-532) ppm in the Seneca River Arm.

In addition to the total PCB concentrations given in Table 1, PCB Aroclors were identified for each sediment sample. Aroclors found in descending order of concentration and occurrence included: 1242 followed by 1254. The other four Aroclors were not detected in the sediment. The combinations of Aroclors and their prominence in the 2001 data samples were similar to the 2000 samples where 1242 was the most abundant followed by 1254. However Aroclors 1248 and 1260, which were detected in 2000, were not detected above 0.212 ppm in 2001. Aroclors 1232, 1221, 1260 and 1016 were not detected in either of the last two years with the exception of Aroclor 1221, which was detected in only two samples in 2000. Figure 3 provides the results of sediment analyses for the past six years of data collection. Figure 3 generally illustrates the deposition of PCBs in the Twelvemile Creek/Lake Hartwell system. The highest concentrations of PCBs are found in the lower end of the Twelvemile Creek Arm (SD-009 through SD-013), which historically contained the greatest deposition of sediments transported from Twelvemile Creek. A

comparison of the 2001 to 2000 sediment PCB concentrations indicates that the concentration was greater at 9 stations, lower at 8 stations and remained relatively the same at four stations. However, the average concentration in the sediment decreased from 2000 to 2001, with an average of 1.75 ppm in 2000 compared to an average of 1.4 ppm in 2001. (1/2 the detection limit was used as the concentration for the non-detects to calculate the average).

The TOC values for all sediment samples range from less than 2,310 ppm at SD-000 (a factor of four increase in the minimum from 2000) to 38,300 ppm at SD-011. The TOC values were higher in areas downstream of SD-007 in the Twelvemile Creek area, which indicates an area of deposition of fine silt in the impounded waters of Lake Hartwell. The area of coarse substrate and low TOC appears to have extended from SD-006, in 1999, downstream to SD-007, in 2000 and 2001, with the second lowest TOC reported at SD-007 (3000ppm) in 2001. This is a length of approximately 3,000 feet where coarse material has apparently been deposited over earlier deposits of silt. In addition, the water level was low in 2001 and riverine flow was observed at SD-007 in April 2001. This may be a result of releases of sediment from the upstream reservoirs. The TOC results are presented graphically in Figure 4 for the six sampling events of 1996 to 2001. The TOC appears to be higher in 2001 than in 2000, as shown by an increase in the TOC values in 15 of the 21 samples, while the PCB concentration appears to be less than in 2000.

3.2

CORBICULA

The analytical results of the seven *Corbicula* samples are summarized in Table 2 and illustrated in Figure 5. Analytical data sheets are provided in Appendix B. Of the seven specific Aroclor compounds reported by the analytical method, two (1242 and 1254) were detected in the *Corbicula* tissue in the samples for the year 2001. Aroclors 1221 and 1248 were reported last in tissue samples collected in 1999. The *Corbicula* results are also graphically presented in Figure 6 for the six sampling events dating from 1995 to 2001. The highest concentrations of PCBs detected in *Corbicula* tissue were in samples collected immediately downstream of the OU-1 facility in Town Creek at C-1 (maximum 2.32 ppm). The PCB concentrations were much lower compared to previous years at the downstream locations, C-5 and C-6, where 0.45 ppm was the lowest value recorded at C-5, and 1.49 ppm was the second lowest for C-6 in the seven year monitoring period. PCBs were not detected at the 0.05 ppm detection limit in *Corbicula* at stations C-0 (Town Creek upstream of the outfall), C-2 (Twelvemile Creek upstream of Town Creek), and C-4 (Wolf Creek).

Sampling locations were selected to coincide with previous Lake Hartwell sampling events. The six fish tissue sampling locations are depicted in Figure 7. Also illustrated in Figure 7 are the mean PCB concentrations for the three filleted fish species sampled during 2001.

Provided in Table 3 is the summary of the 2001 Fish Tissue Study results, with the analytical data sheets provided in Appendix C. The following information is included in Table 3: sample number, sample date, sampled species, length, weight, sex and PCB concentration. A total of 153 fish samples were collected. Due to the low numbers of acceptable size of hybrid bass at SV-107, nine fish were collected instead of ten. Eleven hybrid bass were collected at SV-106. The breakdown of the specific Aroclors for each fish sample is summarized in Table 4. These data indicated the presence of only Aroclors 1254 and 1260 in fish tissue samples; however, Aroclors 1242 and 1254 were detected in the *Corbicula* and sediment. Table 5 presents the PCB concentrations in each largemouth bass collected from each location, as well as the mean and standard deviation for each station. The mean data are also depicted graphically to illustrate the trends in mean concentrations at different stations. Similar information is presented in Tables 6 and 7 for hybrid bass and channel catfish, respectively. Table 8 presents similar information for bluegill, threadfin shad, and gizzard shad.

The PCB concentrations were below the 2.0 ppm FDA tolerance level in largemouth bass fillets at four of the six locations. The mean values at SV-107 and SV-106 were 6.93 ppm and 2.40 ppm, respectively. The mean PCB concentrations were less than 0.2 ppm at SV-535, SV-641, and SV-642, the three stations farthest downstream of Twelvemile Creek in the lake.

The 2.0 ppm FDA limit was exceeded at all six stations for hybrid bass fillets. The maximum mean value of 6.29 ppm was detected at SV-107 (Twelvemile Creek), and the lowest mean value of 2.46 ppm was detected at Station SV-642 (near the dam).

The FDA limit of 2.0 ppm was exceeded in only one of the 24 catfish samples from the six sample locations. The one catfish with greater than 2.0 ppm PCB was a 3.7 pound fish from SV-107. The highest mean concentration detected in catfish fillet was 1.91 ppm at SV-107 with the lowest mean concentration detected nearest to the dam (SV-642) at 0.19 ppm.

During the 2001 monitoring year, mean PCB concentrations in whole-tissue samples of forage fish (Table 8) indicate various degrees of

bioaccumulation with three of the nine samples greater than 2.0 ppm. These included all three forage fish species (gizzard shad, threadfin shad, and bluegill) from SV-107. The highest concentration of PCB in forage fish at SV-107 was found in gizzard shad at 6.16 ppm. The concentrations of PCBs in bluegill and threadfin shad at SV-107 were relatively similar at 3.37 and 2.99 ppm respectively. The concentration of PCBs was similar in bluegill and threadfin shad at SV-532 and SV-641 as well, with the concentration in gizzard shad higher than the other two species at both stations. The concentration of PCBs in bluegill and threadfin shad was below detection (0.05 ppm) at SV-641.

The PCB concentrations were less than 2.0 ppm in three of the nine forage fish samples, which is similar to the 2000 results. This is an indication of the continuing trend in overall reduction of fish tissue concentration in the lake. The PCB concentrations were lower in each forage fish species with increasing distance from the Twelvemile Creek Arm of Lake Hartwell.

The PCB concentrations detected in the 2001 fish study were compared to data from 1990 to present. Illustrated in Figures 8 through 10 are the trends in average PCB concentrations of fish fillets for largemouth bass, hybrid bass, and channel catfish, respectively. Each figure depicts the trends in PCB concentrations at each of the six locations sampled. The 2.0 ppm FDA limit was exceeded in largemouth bass fillets (Figure 8) at two stations, SV-107 and SV-106 (both locations are considered to be in the sediment deposition area of the Twelvemile Creek Arm) during this ten-year period. At SV-532, a single exceedance was reported during 1994. The lowest mean concentration recorded in the past 10 years at SV-532 was 0.67 ppm during 2001. There were no exceedances in average largemouth bass PCB concentrations at SV-535, SV-641 and SV-642 between 1990 and 2000. The PCB concentration detected at SV-107 (6.93 ppm) was the lowest recorded since 1995.

The database for hybrid bass does not include all years for all stations for the period 1990 through 2001 due to difficulties in collecting this highly mobile species in 1990 and 1991. Hybrid bass were collected at all locations from 1992 to 2001. The concentrations found in hybrid bass indicate a trend in reduction of PCB concentrations on a localized basis (Figure 9). The historic data indicate that PCB concentrations appear to be randomly distributed by date and location. The 2001 data show concentrations of PCBs were lowest at SV-642, near the dam. The lowest lake-wide averages have been reported at different stations over the last 11 years, which is evidence of the randomness of the PCB concentration in hybrid bass. The locations with historically the highest concentrations (over the past 5 years) are SV-106 and SV-532. During 2001, the highest concentrations were found at SV-107 and SV-106. The degree of scatter in

these data may be attributed to the wide migratory movements of the hybrid bass, which result in exposure to all areas of the lake and, as discussed above, the low water levels in the lake during 2001

The annual trends in mean PCB concentrations in catfish fillets (Figure 10) show lower concentrations detected with increasing distance from Twelvemile Creek. The concentration of PCBs was highest at SV-107. This trend was also observed in 7 of the last 10 years. In addition, the 2.0 ppm level was only exceeded in one fish sample (3.95 ppm) at SV-107. The overall trend in data collected over the past 10 years indicates a reduction in PCB concentrations in catfish fillets lake-wide.

Sampling surveys that collected consistent sizes and species of fish were conducted annually from 1995 to 2001. Figures 11, 12, and 13, respectively show the concentration of PCBs in three species of forage fish (bluegill, threadfin shad, and gizzard shad). These data were collected over a limited period of time and, with the exception of gizzard shad (Figure 13), do not indicate definitive trends in the reduction of PCBs in forage fish. The gizzard shad data suggest a general decrease in PCBs with increasing distance downstream from Twelvemile Creek and with time. In general, the decrease in PCB concentrations with increasing distance from Twelvemile Creek is also observed in the bluegill and threadfin shad.

SEDIMENTS

In the free flowing segment of Twelvemile Creek (SD-000 to SD-005), including Town Creek, the average and maximum PCB concentrations in sediments are reduced from 2000 levels. With the exceptions of SD-012 and SD-013, concentrations detected in other portions of Twelvemile Creek and Lake Hartwell were generally lower or similar to the 2000 values. The maximum concentration detected in 2001 was substantially lower than the maximum detected in 2000.

"Historic" values were reviewed from data collected by the State and EPA from approximately 1977 to 1988. Sediment data were also reviewed from the data collected during the Remedial Investigation of 1991 (RI data). The 2001 data were compared to these two sample periods to understand trends in the concentration of PCBs in sediment spatially and over time.

The Upper Twelvemile Creek Arm includes approximately the upper four miles of impounded waters of Lake Hartwell. This is one of the most heavily sampled areas of the lake to date. The concentrations of the four surface sediment composite samples of this area (SD-006 through SD-009) ranged from 0.22 ppm to 2.5 ppm in 2001. These values were much less than those reported by the State and EPA from 1976 through 1985 (historic), which ranged from 1.7 ppm to 48.0 ppm and those reported by ERM in 1995, which ranged from 0.943 ppm to 3.66 ppm. Germann (1988) indicated PCB surface sediment concentrations ranging from 5 to 50 ppm for this area. The 2001 data indicate that the PCB concentrations in surficial sediments of the Upper Twelvemile Creek Arm were reduced from historic levels and are lower than or similar to the 2000 levels.

The Middle Twelvemile Creek Arm extends from Maw Bridge to the Highway 133. Two samples were collected in the area (SD-010 and SD-011) during the 2001 survey and found to have PCB concentrations of 2.6 and 2.3 ppm, respectively. Historic PCB concentrations in this area have ranged from 0.84 to 64.3 ppm between 1976 and 1988. The RI/FS sampling of 1991 (RI data) indicated concentrations ranging from 0.16 to 6.48 ppm in 45 samples. A review of the post-1991 data indicates that the 2001 concentrations in this area are less than the highest values reported of 8.56 ppm and 16.0 ppm in 1995. The concentration detected at SD-010 in 2001 was slightly higher than the 2000 value (2.6 ppm vs 2.08 ppm).

while the SD-011 value in 2001 (2.3 ppm) was significantly less than the 2000 value of 12.5 ppm (the maximum value for that year)

The lower Twelvemile Creek Arm area, from Highway 133 to Highway 123, a reach of approximately 3.5 miles, includes stations SD-012 and SD-013. The concentrations detected in 2001 at SD-012 and SD-013 were 5.73 ppm and 3.98 ppm, respectively, and were the two highest concentrations detected in 2001. Historic concentrations at SD-013 have ranged from 0.39 to 55.62 ppm with maximums of 12.03 ppm and 55.62 ppm detected in 1977 and 1985, respectively. Since 1995, PCB concentrations have declined at both SD-012 and SD-013.

Historically, the highest concentrations of PCBs have been detected at SD-013. In 2001 the highest concentration was detected in SD-012 and the second highest was detected in SD-013. This area of the lake is located at the mouth of the impounded portion of the Twelvemile Creek Arm of Lake Hartwell in the area with the highest deposition rates. Consequently, this area and SD-011 have historically received the highest PCB loads associated with contaminated sediments from the watershed. PCB levels prior to 1990 in this area were likely to have originated from upstream. Recent surficial deposits in this area are likely due to residual PCBs in the sediments recently released from Woodside I and II in October 1998, combined with residual PCBs released during normal Spring flood events in 1999, 2000 and 2001 from remnant deposits in the free-flowing stream segments of Twelvemile Creek upstream of the reservoirs. Prior to the 1998 controlled releases, the last full-scale flushing of Woodside I and II occurred in 1991. At that time, significant deposits of sediment were allowed to remain in the bottom of the reservoirs (see photographs in 1993 Feasibility Study). These deposits, some of which were released in October 1998, and again in 1999 and 2000/2001, contained residual PCBs from upstream releases. The result of these releases is that the levels of PCBs in the surficial sediments sampled in 2001 reflect the presence of remnant quantities of PCBs upstream that are slowly removed, the transport of these deposits, and transient events in PCB release mechanisms. The data collected in 2001 show a reduction in the average PCB concentrations in the 21 samples compared to concentrations in 2000 (1.4 ppm in 2001 vs. 1.75 ppm in 2000) and a reduction in the maximum concentration detected.

The Seneca River Arm/Upper Hartwell Lake area (Highway 123 to Highway 37, a distance of approximately 3.05 miles) was sampled in 2001 at two locations—one near the upper end (SD-014) and one at the lower end of this reach (SD-015). Concentrations of 0.814 ppm and 0.445 ppm, respectively, were recorded at these locations, both reduced from 2000. Historic sampling indicates that concentrations at these two locations have

ranged from 0.01 to 14.26 ppm, while 1991 RI data indicate concentration ranges from 0.04 to 5.26 ppm. The PCB concentrations in this area of the lake appear to have steadily decreased since the beginning of the sampling program. In general, the surficial sediment PCB and TOC data indicate both the origin of the recently deposited sediment, and deposition patterns in the impounded portion of Twelvemile Creek Arm of Lake Hartwell. PCB concentrations in surficial sediment at these two locations were the lowest in 2001 compared to the previous six years.

Sediment sampling in the lower section of Lake Hartwell included five stations that correspond to the fish sampling locations SD-106, SD-532, SD-535, SD-642, and the background location in the Tugaloo River Arm SD-641. The PCBs ranged from <0.092 at SD-641 to 0.487 ppm at station SD-106 near Martins Creek. This is a factor of four reduction in concentration at SD-106 compared to 2000. The historic sampling data reflect few locations, which correspond to these locations. Specific locations that have been sampled in the past include SD-106, which was sampled in 1976 by SCHDEC. The range in concentrations determined in 1976 at SD-106 was 0.01 to 6.59 ppm. Since 1995, the concentrations at SD-106 have ranged from 0.514 ppm in 1998 to 8.92 ppm in 1995 and appear to be declining. The concentrations of PCB in the lower four stations have been below 2.0 ppm for the seven-year monitoring period and were all below 0.5 ppm in 2001 for the first time on record.

The total organic carbon (TOC) concentration has been analyzed in sediment routinely since 1996. For the most part, these data support an expected lower organic content in sediment samples from the free flowing stream stations. TOC concentration generally increases at station SD-008 or SD-009 and remains above approximately 20,000 ppm from that point to the dam. The highest TOC concentration (64,000 ppm) was measured at SD-106 in 1997. In comparison, the maximum concentration measured in 2001 was 38,300 ppm at SD-011. The TOC in 2001 was higher at 15 locations, lower at 4 locations and had no change at two locations compared to the 2000 values. The PCBs are known to attach to the organic material in the sediment. The combination of the increase in TOC and reduction of PCB concentration supports the downward trend in overall PCB concentration in Lake sediments. The TOC was low at SD-007 compared to SD-008. The low water level and noticeable current velocity at SD-007 gives the appearance that sediments are continuing to move downstream.

Results of the *Corbicula* tissue analyses indicate a reduction in PCB concentrations from 1995 through 2001. PCBs were detected at four locations (C-1, C-3, C-5, and C-6) and were at or below the detection limit at the background locations (C-0- Town Creek, C-2- Twelvemile Creek, and C-4-Wolf Creek). During the 2001 sampling period, the concentration of PCBs at the three background stations was below the detection limit of approximately 0.05 ppm. The concentration at six of the seven locations was less in 2001 than in 2000. The only exception was station C-6 where the concentration was 1.49 ppm, which was the second lowest measured value at this location in the seven-year monitoring period. The PCB concentration measured at C-1 was also the second lowest detected value of the period and the concentration measured at C-5 was the lowest concentration measured at this sampling location in the seven-year period.

Corbicula from Wolf Creek, where the PCB concentration was non-detect (<0.053 ppm) in tissue, were used as reference organisms. The concentration of PCBs ranged from <0.05 ppm at the control site in Town Creek (C-0), upstream of the OU-1 site, to 2.32 ppm (average of 2.23 ppm and 2.4 ppm duplicate) in Town Creek (C-1) downstream of the discharge.

Corbicula have been analyzed for seven consecutive years. The trends indicated by these data are: 1) generally, background concentrations of PCBs were below the detection limit in the upstream locations on Town, Wolf, and Twelvemile Creeks, 2) relatively similar levels of bioaccumulation at stations downstream of the facility (C-1, C-3, C-5, and C-6), and 3) generally lower concentrations in 2001 than in 2000 and previous years.

The results of the 2001 OU2 Fish Study show PCB concentrations were generally lower with increasing distance from the Twelvemile Creek Arm of Lake Hartwell for largemouth bass, channel catfish and forage fish. PCB concentrations appear to have generally decreased with time. Forage fish show localized levels of contamination, similar to largemouth bass and channel catfish, with the highest PCB concentrations in forage fish detected in the Twelvemile Creek Arm and generally lower levels detected at stations downstream of Twelvemile Creek. The 2001 fish results show an overall reduction in the PCB concentrations in largemouth bass and channel catfish at most stations from the period 1990 through 2001.

With two exceptions, largemouth bass and channel catfish collected at SV-532, SV-535, SV-641, and SV-642 had mean PCB concentrations less than 2.0 ppm from 1990 to 2001. Samples at SV-106 and SV-107 in 2001 were also less than 2.0 ppm for channel catfish. This was the second consecutive survey where the average concentration of PCB in catfish was below 2.0 ppm at all stations. The PCB concentrations in hybrid bass exceeded the 2.0 ppm FDA limit at all six stations in 2001. The PCB concentrations in hybrid bass are lowest at stations SV-641 and SV-642. While the concentration of PCBs in hybrid bass went up in 2001 compared to 2000, this may be due to the single 10-year high mean value reported at SV-107 (6.29 ppm). This high value appears to be due to the extremely low water level conditions in the lake and the potential increased exposure of hybrids and forage fish to sediment.

The forage fish data show a reduction in PCB concentration with increasing distance from Twelvemile Creek for all three species. There is only a slight increase in PCB concentration in the gizzard shad at SV-107 in 2001 compared to the previous four years. The 2001 bluegill values were similar to or lower than the 2000 values. PCBs in threadfin shad indicate no definitive trends at SV-107. The concentration of PCBs is lower in threadfin shad in 2001 than the previous five years. Over the last five years, concentrations at station SV-641 remained below 0.1 ppm in threadfin shad and bluegill.

4.4

LONG-TERM MONITORING DESIGN FOR TREND ANALYSIS

Although this report discusses observations and apparent "trends" in various data sets, the data have not been subjected to any formal statistical analyses. The monitoring program implemented in 1995 was designed to collect 10 or more years of data, which would then be subjected to statistical time series analyses, trend analyses, ANOVA testing or other methods of data analyses. Statistical analyses to discern trends in the sediment and fish data should only be conducted on data collected after the effects of episodic events like the flushing of the hydroelectric reservoirs have dampened out with time.

Samples of fish, *Corbicula* tissue, and sediment from the OU2 study area were analyzed for PCBs. The analytical method used was EPA SW-846, Method 8082. Fish and sediment samples were collected from April 16 to April 27, 2001, and *Corbicula* were collected on May 24, 2001. Northeast Analytical, Inc. (NEA) performed analyses on fish and sediment from April 24 through June 12, 2001 and analyzed *Corbicula* tissue on June 12, 2001. Quality assurance (QA) samples were collected in the field and submitted for analyses. QA samples included: 1) field prepared sediment duplicates (one per ten samples collected); 2) Equipment rinsate, and field blanks collected for both fish and sediment samples (one per 20 samples collected), and 3) duplicates of fish tissue and *Corbicula* samples (one per 10 samples collected) split in the laboratory. All samples were delivered overnight to the laboratory with complete chain of custody documentation. The sample preservation requirement for PCB analysis (temperature less than or equal to 4°C) was maintained. During this sampling event, fish tissue, *Corbicula*, sediment, and water samples were kept on ice prior to shipment to the laboratory.

EPA and SCDHEC require that PCB samples are extracted within 14 days following collection and analyzed within 40 days following extraction. No samples exceeded the allowable holding time.

The seven Aroclors specified under Method 8082 were reported for each sample analyzed. The practical quantitation limit (PQL) was specified for each Aroclor and sample combination. The PQLs ranged from 0.0505 to 0.546 ppm for fish tissue, 0.0591 to 0.212 ppm for sediments, and 0.0508 to 0.108 for *Corbicula*. The PQLs specified above are within the same range as the estimated quantitation limit (EQL) for high concentration soils and sludges referenced in Method 8082.

Quality assurance/quality control (QA/QC) analytical results are included in Appendix D. PCBs were not present in any of the equipment rinsates or trip blanks at a PQL of 0.0500 to 0.0633 ppb. This range of PQLs is less than the Method 8082 EQL of 0.065 ppb. This indicates the presence of PCBs was not due to equipment contamination.

Two sediment samples were submitted in duplicate for analysis. Fifteen fish and one *Corbicula* samples were split in the laboratory for duplicate analysis. The results indicated good precision for the combined sample collection and analysis procedure. There is no guideline for an acceptable level of precision for the combined sample collection and analysis of

duplicate samples for PCBs. The relative precision (percent difference), however, of all but two duplicate samples tested were less than 35% and generally less than 15%, which indicates good precision. The two exceptions were fish samples SV532-08 and SV641-01. SV532-08 had a measured value of 0.986 ppm and a duplicate value of 1.68 ppm for a precision of 52.0% and SV641-01 had a measured value of 0.125 ppm and a duplicate value of 0.265 ppm for a precision of 71.8%.

Laboratory quality control procedures included the addition of surrogate standards prior to analysis, the analysis of a duplicate and matrix spike on selected samples, and the analysis of method blanks. In accordance with Method 8082 procedures, two surrogate standards (tetrachloromethaxylene and dichlorobiphenol) were incorporated into all samples analyzed. The percent recovery of these surrogates was the limit set by the method. The recovery limits set by method 8082 range from 60% to 130%.

Laboratory matrix spike samples and duplicates of the matrix spikes (MS/MSD) were prepared and analyzed from 10 samples. The percent recovery of matrix spikes ranged from 90.7% to 127%. The percent matrix spike duplicate recoveries for total PCBs ranged between 88.5% and 129%. These recoveries are most favorable as compared to the recoveries referenced in Method 8082 and are indicative of good accuracy in the data.

Laboratory control spikes were prepared and analyzed from 11 samples. The percent recoveries for the Laboratory control spikes ranged from 92% to 116%. The agreement between the amount spiked and amount recovered for the samples was within acceptable recovery rates. The recovery rates are indicative of good precision in the data.

A total of 11 laboratory method blanks were analyzed. PCBs were not detected in any method blank. The maximum PQLs for the method blanks were all 0.0505-0.0555 µg/g for solid samples.

Table 1 Lake Hartwell OU2 Sediment Results - Spring 2001

Sample Number	Date	Aroclor Identification- ug/g								Total		TOC mg/kg
		1016	1221	1232	1242	1248	1254	1260	PCB - µg/g			
SD000	4/26/2001	< 0.0638	< 0.0638	< 0.0638	< 0.0638	< 0.0638	< 0.0638	< 0.0638	0.00	2,310		
SD001	4/26/2001	< 0.124	< 0.124	< 0.124	1.86	< 0.124	0.699	< 0.124	2.56	20,700		
SD002	4/26/2001	< 0.0742	< 0.0742	< 0.0742	0.192	< 0.0742	0.491	< 0.0742	0.683	7,400		
SD003	4/26/2001	< 0.130	< 0.130	< 0.130	< 0.130	< 0.130	< 0.130	< 0.130	0.00	17,200		
SD004	4/26/2001	< 0.138	< 0.138	< 0.138	0.303	< 0.138	0.765	< 0.138	1.07	24,900		
SD005	4/26/2001	< 0.0771	< 0.0771	< 0.0771	0.136	< 0.0771	0.231	< 0.0771	0.367	9,150		
SD006	4/26/2001	< 0.0854	< 0.0854	< 0.0854	0.335	< 0.0854	0.371	< 0.0854	0.706	7,450		
SD006 Dup	4/26/2001	< 0.0751	< 0.0751	< 0.0751	0.213	< 0.0751	0.248	< 0.0751	0.461	9,540		
SD007	4/25/2001	< 0.0591	< 0.0591	< 0.0591	0.151	< 0.0591	0.0673	< 0.0591	0.218	3,000		
SD008	4/25/2001	< 0.0727	< 0.0727	< 0.0727	0.251	< 0.0727	0.221	< 0.0727	0.472	16,300		
SD009	4/25/2001	< 0.142	< 0.142	< 0.142	1.19	< 0.142	1.38	< 0.142	2.57	35,700		
SD009 Dup	4/25/2001	< 0.134	< 0.134	< 0.134	1.05	< 0.134	1.31	< 0.134	2.36	29,500		
SD010	4/25/2001	< 0.126	< 0.126	< 0.126	1.37	< 0.126	1.23	< 0.126	2.60	29,200		
SD011	4/25/2001	< 0.146	< 0.146	< 0.146	1.17	< 0.146	1.15	< 0.146	2.32	38,300		
SD012	4/25/2001	< 0.212	< 0.212	< 0.212	4.27	< 0.212	1.46	< 0.212	5.73	15,800		
SD013	4/25/2001	< 0.148	< 0.148	< 0.148	2.83	< 0.148	1.15	< 0.148	3.98	32,900		
SD014	4/25/2001	< 0.119	< 0.119	< 0.119	0.507	< 0.119	0.307	< 0.119	0.814	16,500		
SD015	4/25/2001	< 0.118	< 0.118	< 0.118	0.204	< 0.118	0.241	< 0.118	0.445	12,500		
SD106	4/26/2001	< 0.153	< 0.153	< 0.153	0.181	< 0.153	0.306	< 0.153	0.487	25,300		
SD532	4/26/2001	< 0.191	< 0.191	< 0.191	< 0.191	< 0.191	< 0.191	< 0.191	0.00	33,900		
SD535	4/27/2001	< 0.101	< 0.101	< 0.101	0.172	< 0.101	0.226	< 0.101	0.398	25,500		
SD641	4/27/2001	< 0.142	< 0.142	< 0.142	0.157	< 0.142	0.179	< 0.142	0.336	30,000		
SD642	4/27/2001	< 0.0949	< 0.0949	< 0.0949	< 0.0949	< 0.0949	< 0.0949	< 0.0949	0.00	22,200		

TOC Total Organic Carbon

Table 2 Lake Hartwell OU-2 Study 2001 Corbicula Tissue Analysis

Station No.	Aroclor Identification and PCB Concentration (µg/g)											Total
	1016	1221	1232	1242	1248	1254	1260					
C-0: Town Creek upstream of Sangamo Weston	<0.0555	<0.0555	<0.0555	<0.0555	<0.0555	<0.0555	<0.0555	<0.0555	<0.0555	<0.0555	<0.0555	<0.0555
C-1: Town Creek downstream of Sangamo Weston	<0.107	<0.107	<0.107	1.73	<0.107	0.498	<0.107	<0.107	<0.107	<0.107	2.23	2.23
C-1 DUP Town Creek downstream of Sangamo W.	<0.108	<0.108	<0.108	1.86	<0.108	0.540	<0.108	<0.108	<0.108	<0.108	2.40	2.40
C-2 Twelvemile Creek upstream on Town Creek	<0.0508	<0.0508	<0.0508	<0.0508	<0.0508	<0.0508	<0.0508	<0.0508	<0.0508	<0.0508	<0.0508	<0.0508
C-3 Twelvemile Creek at Algood Bridge	<0.0533	<0.0533	<0.0533	0.478	<0.0533	0.362	<0.0533	<0.0533	<0.0533	<0.0533	0.840	0.840
C-4 Wolf Creek	<0.0524	<0.0524	<0.0524	<0.0524	<0.0524	<0.0524	<0.0524	<0.0524	<0.0524	<0.0524	<0.0524	<0.0524
C-5 Twelvemile Creek at 137 Bridge	<0.0533	<0.0533	<0.0533	0.147	<0.0533	0.303	<0.0533	<0.0533	<0.0533	<0.0533	0.450	0.450
C-6 Twelvemile Creek at Maw Bridge (Hwy 337)	<0.104	<0.104	<0.104	0.746	<0.104	0.743	<0.104	<0.104	<0.104	<0.104	1.49	1.49

Table 3 OU2 Fish Study - Field Data and Total PCB Results - Spring 2001

Sample Number	Date	Species	Length (mm)	Weight (grams)	Sex	Total PCB (ppm)
SV-107-01	4/17/2001	GS	275-325	200-350	u	6.16
SV-107-02	4/17/2001	BG	85-190	500 t	u	3.37
SV-107-03	4/17/2001	LB	400	800	f	5.49
SV-107-04	4/17/2001	LB	420	850	f	2.15
SV-107-05	4/17/2001	LB	380	750	f	9.03
SV-107-06	4/17/2001	CC	550	1700	f	4.00
SV-107-06 Dup	4/17/2001	CC	550	1700	f	3.89
SV-107-07	4/17/2001	CC	405	600	f	1.93
SV-107-08	4/17/2001	CC	410	550	m	1.13
SV-107-09	4/17/2001	TF	90-120	100 t	u	2.99
SV-107-10	4/18/2001	LB	470	1200	f	8.08
SV-107-11	4/18/2001	LB	460	1000	f	2.83
SV-107-12	4/18/2001	LB	470	1200	f	3.01
SV-107-13	4/18/2001	LB	480	1400	f	2.82
SV-107-13 Dup	4/18/2001	LB	480	1400	f	2.9
SV-107-14	4/18/2001	LB	400	800	f	13
SV-107-15	4/18/2001	LB	375	600	f	5.78
SV-107-16	4/18/2001	LB	370	600	m	17.1
SV-107-17	4/18/2001	CC	410	550	m	0.611
SV-107-18	4/19/2001	HB	570	2500	m	8.54
SV-107-19	4/19/2001	HB	410	1050	f	5.90
SV-107-20	4/25/2001	HB	460	1400	f	6.81
SV-107-21	4/26/2001	HB	500	1700	f	6.87
SV-107-22	4/26/2001	HB	460	1560	f	5.64
SV-107-23	5/9/2001	HB	460	1520	f	3.98
SV-107-24	5/9/2001	HB	460	1500	f	8.00
SV-107-25	5/9/2001	HB	430	1550	f	3.91
SV-107-26	5/9/2001	HB	430	1525	m	7.00

LB - Largemouth Bass
 HB - Hybrid Bass
 CC - Channel Catfish
 TS - Threadfin Shad
 GS - Gizzard Shad
 BG - Bluegill
 SB - Striped Bass

WB - White Bass
 f - Female
 m - Male
 u - Unknown
 a - Combined Average
 t - Combined Total
 d - Duplicate

Table 3 OU2 Fish Study - Field Data and Total PCB Results - Spring 2001

Sample Number	Date	Species	Length (mm)	Weight (grams)	Sex	Total PCB (µg/g)
SV-106-01	4/17/2001	HB	450	1200	f	3.05
SV-106-02	4/17/2001	HB	440	1200	f	4.55
SV-106-03	4/17/2001	HB	460	1300	f	2.74
SV-106-04	4/17/2001	LB	400	800	m	4.14
SV-106-04 Dup	4/17/2001	LB	400	800	m	4.76
SV-106-05	4/17/2001	LB	358	750	m	3.860
SV-106-06	4/17/2001	LB	380	650	m	2.60
SV-106-07	4/17/2001	LB	360	600	m	1.37
SV-106-08	4/17/2001	LB	370	600	m	5.02
SV-106-09	4/17/2001	LB	355	650	m	1.45
SV-106-10	4/17/2001	LB	355	600	m	1.83
SV-106-11	4/17/2001	LB	400	850	m	1.63
SV-106-12	4/17/2001	LB	340	600	m	0.624
SV-106-13	4/17/2001	CC	420	650	m	0.714
SV-106-14	4/17/2001	CC	420	600	f	1.27
SV-106-15	4/17/2001	CC	440	750	f	1.44
SV-106-16	4/26/2001	CC	390	650	f	0.468
SV-106-17	4/18/2001	HB	430	1000	m	2.03
SV-106-18	4/18/2001	LB	360	500	m	1.21
SV-106-19	4/19/2000	HB	435	1200	f	4.78
SV-106-20	4/19/2000	HB	410	1100	f	3.59
SV-106-21	4/25/2001	HB	540	2050	f	7.63
SV-106-22	4/26/2001	HB	440	1250	f	3.47
SV-106-22 Dup	4/26/2001	HB	440	1250	f	3.40
SV-106-23	4/26/2001	HB	450	1250	f	2.03
SV-106-24	4/26/2001	HB	415	1000	f	3.07
SV-106-25	4/26/2001	HB	455	1300	f	2.03

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WB - White Bass
 f - Female
 m - Male
 u - Unknown
 a - Combined Average
 t - Combined Total
 d - Duplicate

Table 3 OU2 Fish Study - Field Data and Total PCB Results - Spring 2001

Sample Number	Date	Species	Length (mm)	Weight (grams)	Sex	Total PCB (µg/g)
SV-532-01	4/17/2001	BG	100-150	300 t	u	0.369
SV-532-02	4/17/2001	LB	420	850	f	0.226
SV-532-03	4/17/2001	LB	380	650	m	0.938
SV-532-04	4/17/2001	LB	490	1400	f	0.159
SV-532-04 Dup.	4/17/2001	LB	490	1400	f	0.163
SV-532-05	4/17/2001	LB	390	750	m	1.240
SV-532-06	4/17/2001	LB	400	800	m	0.183
SV-532-07	4/17/2001	LB	460	1300	f	0.309
SV-532-08	4/17/2001	LB	470	1400	f	0.986
SV-532-08 Dup.	4/17/2001	LB	470	1400	f	1.680
SV-532-09	4/17/2001	LB	390	700	f	0.765
SV-532-10	4/17/2001	LB	420	950	m	0.752
SV-532-11	4/17/2001	LB	420	950	f	0.806
SV-532-12	4/17/2001	TF	85-115	150 t	u	0.550
SV-532-13	4/18/2001	CC	480	850	f	0.553
SV-532-14	4/18/2001	HB	455	1450	f	4.27
SV-532-14 Dup	4/18/2001	HB	455	1450	f	4.88
SV-532-15	4/18/2001	HB	455	1350	f	4.35
SV-532-16	4/18/2001	HB	460	1350	f	3.34
SV-532-17	4/18/2001	HB	440	1200	f	2.54
SV-532-18	4/18/2001	HB	450	1250	f	2.060
SV-532-19	4/18/2001	HB	465	1300	f	1.42
SV-532-20	4/18/2001	HB	440	1200	f	1.09
SV-532-21	4/18/2001	HB	460	1400	f	1.69
SV-532-22	4/18/2001	HB	440	1300	f	3.52
SV-532-23	4/18/2001	HB	460	1300	f	1.45
SV-532-24	4/18/2001	CC	440	750	f	1.81
SV-532-24 Dup.	4/18/2001	CC	440	750	f	1.28
SV-532-25	4/18/2001	CC	420	650	f	0.560
SV-532-26	4/18/2001	CC	385	550	m	0.936
SV-532-27	4/18/2001	GS	250-335	200-450	u	1.760

LB - Largemouth Bass

HB - Hybrid Bass

CC - Channel Catfish

TS - Threadfin Shad

GS - Gizzard Shad

BG - Bluegill

SB - Striped Bass

WB - White Bass

f - Female

m - Male

u - Unknown

a - Combined Average

t - Combined Total

d - Duplicate

Table 3 OU2 Fish Study - Field Data and Total PCB Results - Spring 2001

Sample Number	Date	Species	Length (mm)	Weight (grams)	Sex	Total PCB (ug/g)
SV-535-01	4/20/2001	HB	450	1200	f	1.15
SV-535-02	4/19/2001	CC	580	2200	f	0.762
SV-535-02 Dup.	4/19/2001	CC	580	2200	f	0.675
SV-535-03	4/19/2001	LB	405	900	m	0.200
SV-535-04	4/19/2001	LB	425	1200	f	0.166
SV-535-04 Dup	4/19/2001	LB	425	1200	f	0.164
SV-535-05	4/19/2001	LB	350	600	m	0.228
SV-535-06	4/19/2001	LB (A)	340	550	m	0.161
SV-535-07	4/19/2001	LB	335	550	m	0.136
SV-535-08	4/19/2001	LB	345	550	m	0.074
SV-535-09	4/19/2001	LB	390	800	m	0.177
SV-535-10	4/19/2001	LB	440	1100	m	0.266
SV-535-11	4/27/2001	LB	360	675	f	0.000
SV-535-12	4/19/2001	LB	375	700	m	0.218
SV-535-13	4/19/2001	CC	550	1750	f	1.87
SV-535-14	4/19/2001	CC	500	1050	f	0.99
SV-535-15	4/19/2001	CC	520	1200	f	0.18
SV-535-16	4/19/2001	HB	450	1250	f	0.570
SV-535-17	4/27/2001	HB	570	2700	m	4.96
SV-535-18	4/19/2001	HB	440	1150	f	1.49
SV-535-19	4/19/2001	HB	450	1300	f	4.23
SV-535-20	4/20/2001	HB	460	1250	f	4.96
SV-535-21	4/20/2001	HB	590	2350	f	1.64
SV-535-22	4/20/2001	HB	460	1550	f	2.83
SV-535-23	4/20/2001	HB	465	1550	m	1.98
SV-535-24	4/20/2001	HB	460	1400	f	6.58

LB - Largemouth Bass

HB - Hybrid Bass

CC - Channel Catfish

TS - Threadfin Shad

GS - Gizzard Shad

BG - Bluegill

SB - Stripped Bass

WB - White Bass

f - Female

m - Male

u - Unknown

a - Combined Average

t - Combined Total

d - Duplicate

A - Anom (Parasites)

Table 3 OU2 Fish Study - Field Data and Total PCB Results - Spring 2001

Sample Number	Date	Species	Length (mm)	Weight (grams)	Sex	Total PCB (µg/g)
SV-642-01	4/19/2001	LB	530	1950	f	0.658
SV-642-02	4/19/2001	LB	430	1000	m	0 00
SV-642-03	4/19/2001	LB	410	900	f	0.218
SV-642-04	4/19/2001	LB	370	550	m	0 129
SV-642-05	4/19/2001	LB	395	800	m	0.076
SV-642-06	4/19/2001	LB	395	700	m	0 101
SV-642-07	4/19/2001	LB	360	600	m	0.00
SV-642-08	4/19/2001	LB	355	550	f	0 00
SV-642-09	4/19/2001	LB	330	450	f	0.167
SV-642-10	4/19/2001	LB	325	500	m	0 00
SV-642-10 Dup.	4/19/2001	LB	325	500	m	0 00
SV-642-11	4/19/2001	CC	440	1000	f	0 00
SV-642-12	4/20/2001	HB	455	1450	f	0.0847
SV-642-13	4/20/2001	HB	500	1700	f	0 928
SV-642-14	4/20/2001	HB	470	1250	m	0.446
SV-642-15	4/20/2001	HB	435	1200	m	0 99
SV-642-16	4/20/2001	HB	450	1350	m	4.48
SV-642-17	4/20/2001	HB	510	2150	f	6.99
SV-642-17 Dup.	4/20/2001	HB	510	2150	f	7 21
SV-642-18	4/20/2001	HB	460	1300	f	1 37
SV-642-19	4/20/2001	CC	450	750	f	0 543
SV-642-20	4/20/2001	CC	500	1000	f	0 0764
SV-642-20 Dup	4/20/2001	CC	500	1000	f	0 0712
SV-642-21	4/20/2001	CC	420	700	f	0.124
SV-642-22	4/25/2001	HB	525	2000	f	3.75
SV-642-23	4/25/2001	HB	510	2200	f	1 28
SV-642-24	4/25/2001	HB	520	1850	f	4 14

LB - Largemouth Bass
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GS - Gizzard Shad
BG - Bluegill
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WB - White Bass
f - Female
m - Male
u - Unknown
a - Combined Average
t - Combined Total
d - Duplicate

Table 3 OU2 Fish Study - Field Data and Total PCB Results - Spring 2001

Sample Number	Date	Species	Length (mm)	Weight (grams)	Sex	Total PCB (ug/g)
SV-641-01	4/20/2001	LB	450	1275	m	0.125
SV-641-01 Dup.	4/20/2001	LB	450	1275	m	0.265
SV-641-02	4/20/2001	LB	340	550	m	0.0954
SV-641-03	4/20/2001	LB	410	910	m	0.0595
SV-641-04	4/20/2001	LB	355	600	m	0.00
SV-641-05	4/20/2001	LB	375	700	m	0.104
SV-641-06	4/25/2001	LB	350	550	f	0.00
SV-641-07	4/20/2001	LB	360	700	m	0.0537
SV-641-08	4/20/2001	LB	440	1100	f	0.0746
SV-641-09	4/20/2001	LB	390	675	f	0.820
SV-641-10	4/20/2001	LB	440	1100	f	0.182
SV-641-11	4/20/2001	CC	410	600	f	0.0665
SV-641-12	4/27/2001	HB	435	1200	f	0.320
SV-641-13	4/20/2001	HB	440	1200	f	3.83
SV-641-14	4/27/2001	HB	450	1800	f	3.78
SV-641-15	4/20/2001	BG	115-165	450 t	u	0.00
SV-641-16	4/20/2001	TS	70-102	100 t	u	0.00
SV-641-17	4/25/2001	HB	535	1850	f	1.01
SV-641-17 Dup.	4/25/2001	HB	535	1850	f	0.77
SV-641-18	4/25/2001	HB	570	2150	m	4.29
SV-641-19	4/25/2001	HB	450	1200	f	1.14
SV-641-20	4/25/2001	HB	440	1200	m	3.32
SV-641-21	4/25/2001	HB	435	1200	f	0.342
SV-641-22	4/26/2001	HB	495	2000	f	4.04
SV-641-23	4/26/2001	CC	455	1000	f	0.0763
SV-641-24	4/26/2001	CC	420	650	f	0.00
SV-641-25	4/26/2001	CC	410	650	f	0.00
SV-641-26	4/27/2001	HB	450	1700	f	3.1
SV-641-27	4/25/2001	GS	200-300	260-300	u	0.37

LB - Largemouth Bass

HB - Hybrid Bass

CC - Channel Catfish

TS - Threadfin Shad

GS - Gizzard Shad

BG - Bluegill

SB - Stripped Bass

WB - White Bass

f - Female

m - Male

u - Unknown

a - Combined Average

t - Combined Total

d - Duplicate

Table 4 OU2 Fish Study - Aroclor and Total PCB Results - Spring 2001

Sample Number	Species & Number	Date Sampled	Aroclor Identification- ug/g										Total PCB - µg/g	
			1016	1221	1232	1242	1248	1254	1260					
SV-107-01	GS	4/17/2001	<0 273	<0 273	<0 273	1 50	<0 273	4 08	0 582					6 16
SV-107-02	BG	4/17/2001	<0 161	<0 161	<0 161	0 279	<0 161	2 70	0 390					3 37
SV-107-03	LB	4/17/2001	<0 214	<0 214	<0 214	0 378	<0 214	4 32	0 789					5 49
SV-107-04	LB	4/17/2001	<0 108	<0 108	<0 108	0 143	<0 108	1 64	0 368					2 15
SV-107-05	LB	4/17/2001	<0 328	<0 328	<0 328	1 030	<0 328	6 92	1 080					9 03
SV-107-06	CC	4/17/2001	<0 212	<0 212	<0 212	<0 212	<0 212	3 20	0 805					4 01
SV-107-06 Dup	CC	4/17/2001	<0 220	<0 220	<0 220	<0 220	<0 220	3 14	0 748					3 89
SV-107-07	CC	4/17/2001	<0 109	> 0 109	<0 109	0 223	<0 109	1 44	0 267					1 93
SV-107-08	CC	4/17/2001	<0 0545	<0 0545	<0 0545	0 0578	<0 0545	0 803	0 268					1 13
SV-107-09	TS	4/17/2001	<0 166	<0 166	<0 166	0 666	<0 166	2 12	0 208					2 99
SV-107-10	LB	4/18/2001	<0 362	<0 362	<0 362	0 708	<0 362	5 55	1 820					8 08
SV-107-11	LB	4/18/2001	<0 108	<0 108	<0 108	0 151	<0 108	2 02	0 657					2 83
SV-107-12	LB	4/18/2001	<0 109	<0 109	<0 109	0 320	<0 109	2 16	0 534					3 01
SV-107-13	LB	4/18/2001	<0 108	<0 108	<0 108	0 110	<0 108	2 20	0 511					2 82
SV-107-13 Dup	LB	4/18/2001	<0 109	<0 109	<0 109	0 131	<0 109	2 28	0 490					2 90
SV-107-14	LB	4/18/2001	<0 546	<0 546	<0 546	2 490	<0 546	9 18	1 320					13 0
SV-107-15	LB	4/18/2001	<0 271	<0 271	<0 271	0 595	<0 271	4 38	0 801					5 78
SV-107-16	LB	4/18/2001	<0 535	<0 535	<0 535	1 580	<0 535	13 3	2 250					17 1
SV-107-17	CC	4/18/2001	<0 0526	<0 0526	<0 0526	0 0833	<0 0526	0 474	0 0536					0 611
SV-107-18	HB	4/19/2001	<0 440	<0 440	<0 440	0 662	<0 440	6 96	0 917					8 54
SV-107-19	HB	4/19/2001	<0 206	<0 206	<0 206	0 511	<0 206	4 53	0 858					5 90
SV-107-20	HB	4/25/2001	<0 211	<0 211	<0 211	0 879	<0 211	5 15	0 782					6 81
SV-107-21	HB	4/26/2001	<0 161	<0 161	<0 161	0 820	<0 161	5 15	0 897					6 87
SV-107-22	HB	4/26/2001	<0 156	<0 156	<0 156	0 605	<0 156	4 30	0 738					5 64
SV-107-23	HB	5/9/2001	<0 109	<0 109	<0 109	0 507	<0 109	3 00	0 471					3 98
SV-107-24	HB	5/9/2001	<0 218	<0 218	<0 218	1 110	<0 218	5 92	0 974					8 00
SV-107-25	HB	5/9/2001	<0 109	<0 109	<0 109	0 453	<0 109	3 02	0 434					3 91
SV-107-26	HB	5/9/2001	<0 204	<0 204	<0 204	0 930	<0 204	5 24	0 825					7 00

LMB - Large Mouth Bass BG - Blue Gill
 HB - Hybrid Bass TS - Thread Fin Shad
 CC - Catfish
 GS - Gizzard Shad
 < - Indicates as undetected value

Table 4 OU2 Fish Study - Aroclor and Total PCB Results - Spring 2001

Sample Number	Species & Number	Date Sampled	Aroclor Identification- ug/g										Total PCB - ug/g	
			1016	1221	1232	1242	1248	1254	1260					
SV-106-01	HB	4/17/2001	<0.103	<0.103	<0.103	0.370	<0.103	2.31	0.371				3.05	
SV-106-02	HB	4/17/2001	<0.162	<0.162	<0.162	0.612	<0.162	3.42	0.521				4.55	
SV-106-03	HB	4/17/2001	<0.107	<0.107	<0.107	0.387	<0.107	2.03	0.319				2.74	
SV-106-04	LB	4/17/2001	<0.210	<0.210	<0.210	<0.210	<0.210	3.41	0.728				4.14	
SV-106-04 Dup	LB	4/17/2001	<0.208	<0.208	<0.208	<0.208	<0.208	3.84	0.925				4.77	
SV-106-05	LB	4/17/2001	<0.163	<0.163	<0.163	0.404	<0.163	2.94	0.513				3.86	
SV-106-06	LB	4/17/2001	<0.111	<0.111	<0.111	0.249	<0.111	1.98	0.366				2.60	
SV-106-07	LB	4/17/2001	<0.110	<0.110	<0.110	0.143	<0.110	1.07	0.154				1.37	
SV-106-08	LB	4/17/2001	<0.213	<0.213	<0.213	<0.213	<0.213	1.48	3.54				5.02	
SV-106-09	LB	4/17/2001	<0.108	<0.108	<0.108	0.163	<0.108	1.10	0.185				1.45	
SV-106-10	LB	4/17/2001	<0.110	<0.110	<0.110	0.163	<0.110	1.37	0.292				1.83	
SV-106-11	LB	4/17/2001	<0.107	<0.107	<0.107	0.177	<0.107	1.24	0.208				1.63	
SV-106-12	LB	4/17/2001	<0.0552	<0.0552	<0.0552	<0.0552	<0.0552	0.543	0.0811				0.624	
SV-106-13	CC	4/17/2001	<0.0552	<0.0552	<0.0552	<0.0552	<0.0552	0.58	0.137				0.714	
SV-106-14	CC	4/17/2001	<0.0530	<0.0530	<0.0530	<0.0530	<0.0530	0.981	0.287				1.27	
SV-106-15	CC	4/17/2001	<0.0531	<0.0531	<0.0531	<0.0531	<0.0531	1.18	0.258				1.44	
SV-106-16	CC	4/26/2001	<0.0520	<0.0520	<0.0520	<0.0520	<0.0520	0.354	0.114				0.468	
SV-106-17	HB	4/26/2001	<0.0533	<0.0533	<0.0533	0.246	<0.0533	1.540	0.242				2.03	
SV-106-18	LB	4/26/2001	<0.0519	<0.0519	<0.0519	0.0597	<0.0519	0.931	0.221				1.21	
SV-106-19	HB	4/26/2001	<0.207	<0.207	<0.207	0.668	<0.207	3.56	0.548				4.78	
SV-106-20	HB	4/26/2001	<0.106	<0.106	<0.106	0.501	<0.106	2.66	0.430				3.59	
SV-106-21	HB	4/26/2001	<0.305	<0.305	<0.305	0.720	<0.305	5.74	1.17				7.63	
SV-106-22	HB	4/26/2001	<0.108	<0.108	<0.108	0.449	<0.108	2.61	0.410				3.47	
SV-106-22 Dup	HB	4/26/2001	<0.101	<0.101	<0.101	0.475	<0.101	2.52	0.402				3.40	
SV-106-23	HB	4/26/2001	<0.0545	<0.0545	<0.0545	0.271	<0.0545	1.540	0.220				2.03	
SV-106-24	HB	4/26/2001	<0.107	<0.107	<0.107	0.364	<0.107	2.33	0.372				3.07	
SV-106-25	HB	4/26/2001	<0.0533	<0.0533	<0.0533	0.246	<0.0533	1.54	0.242				2.03	

LMB - Large Mouth Bass BG - Blue Gill
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GS - Gisard Shad

Table 4 OU2 Fish Study - Aroclor and Total PCB Results - Spring 2001

Sample Number	Species & Number	Date Sampled	Aroclor Identification- ug/g										Total PCB - µg/g	
			1016	1221	1232	1242	1248	1254	1260					
SV-532-01	BG	4/17/2001	<0.0513	<0.0513	<0.0513	<0.0513	<0.0513	0.306	0.0627				0.369	
SV-532-02	LB	4/17/2001	<0.0550	<0.0550	<0.0550	<0.0550	<0.0550	0.226	<0.0550				0.226	
SV-532-03	LB	4/17/2001	<0.0541	<0.0541	<0.0541	0.115	<0.0541	0.722	0.101				0.938	
SV-532-04	LB	4/17/2001	<0.0524	<0.0524	<0.0524	<0.0524	<0.0524	0.159	<0.0524				0.159	
SV-532-04 Dup	LB	4/17/2001	<0.0546	<0.0546	<0.0546	<0.0546	<0.0546	0.163	<0.0546				0.163	
SV-532-05	LB	4/17/2001	<0.103	<0.103	<0.103	<0.103	<0.103	1.05	0.185				1.24	
SV-532-06	LB	4/17/2001	<0.0506	<0.0506	<0.0506	<0.0506	<0.0506	0.183	<0.0506				0.183	
SV-532-07	LB	4/17/2001	<0.0518	<0.0518	<0.0518	<0.0518	<0.0518	0.239	0.0696				0.309	
SV-532-08	LB	4/17/2001	<0.0513	<0.0513	<0.0513	<0.0513	<0.0513	0.812	0.174				0.986	
SV-532-08 Dup	LB	4/17/2001	<0.0538	<0.0538	<0.0538	<0.0538	<0.0538	1.38	0.297				1.68	
SV-532-09	LB	4/17/2001	<0.0506	<0.0506	<0.0506	<0.0506	<0.0506	0.646	0.119				0.765	
SV-532-10	LB	4/17/2001	<0.0553	<0.0553	<0.0553	<0.0553	<0.0553	0.628	0.124				0.752	
SV-532-11	LB	4/17/2001	<0.0521	<0.0521	<0.0521	<0.0521	<0.0521	0.691	0.115				0.806	
SV-532-12	TF	4/17/2001	<0.0531	<0.0531	<0.0531	<0.0531	<0.0531	0.550	<0.0531				0.550	
SV-532-13	CC	4/18/2001	<0.0512	<0.0512	<0.0512	<0.0512	<0.0512	0.479	0.0739				0.553	
SV-532-14	HB	4/18/2001	<0.217	<0.217	<0.217	0.594	<0.217	3.25	0.425				4.27	
SV-532-14 Dup	HB	4/18/2001	<0.210	<0.210	<0.210	0.719	<0.210	3.64	0.517				4.88	
SV-532-15	HB	4/18/2001	<0.216	<0.216	<0.216	0.612	<0.216	3.26	0.478				4.35	
SV-532-16	HB	4/18/2001	<0.163	<0.163	<0.163	0.540	<0.163	2.48	0.315				3.34	
SV-532-17	HB	4/18/2001	<0.110	<0.110	<0.110	0.366	<0.110	1.91	0.260				2.54	
SV-532-18	HB	4/18/2001	<0.105	<0.105	<0.105	0.283	<0.105	1.56	0.220				2.06	
SV-532-19	HB	4/20/2001	<0.107	<0.107	<0.107	0.134	<0.107	1.14	0.148				1.42	
SV-532-20	HB	4/18/2001	<0.104	<0.104	<0.104	<0.104	<0.104	0.955	0.136				1.09	
SV-532-21	HB	4/18/2001	<0.107	<0.107	<0.107	0.174	<0.107	1.33	0.182				1.69	
SV-532-22	HB	4/18/2001	<0.165	<0.165	<0.165	0.369	<0.165	2.75	0.402				3.52	
SV-532-23	HB	4/18/2001	<0.0550	<0.0550	<0.0550	> 0.206	<0.0550	1.09	0.150				1.45	
SV-532-24	CC	4/18/2001	<0.0516	<0.0516	<0.0516	0.139	<0.0516	1.46	0.216				1.82	
SV-532-24 Dup	CC	4/18/2001	<0.0542	<0.0542	<0.0542	0.0955	<0.0542	1.05	0.133				1.28	
SV-532-25	CC	4/18/2001	<0.0543	<0.0543	<0.0543	0.0364	<0.0543	0.504	<0.0543				0.560	
SV-532-26	CC	4/18/2001	<0.0542	<0.0542	<0.0542	<0.0542	<0.0542	0.808	0.128				0.936	
SV-532-27	GS	4/19/2001	<0.0545	<0.0545	<0.0545	0.125	<0.0545	1.41	0.223				1.76	

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Table 4 OU2 Fish Study - Aroclor and Total PCB Results - Spring 2001

Sample Number	Species & Number	Date Sampled	Aroclor Identification- ug/g										Total PCB - µg/g	
			1016	1221	1232	1242	1248	1254	1260					
SV-535-01	HB	4/20/2001	<0.0543	<0.0543	<0.0543	0.104	<0.0543	0.920	0.128				1.152	
SV-535-02	CC	4/19/2001	<0.0554	<0.0554	<0.0554	<0.0554	<0.0554	0.626	0.136				0.762	
SV-535-02 Dup	CC	4/19/2001	<0.0533	<0.0533	<0.0533	<0.0533	<0.0533	0.546	0.129				0.675	
SV-535-03	LB	4/19/2001	<0.0542	<0.0542	<0.0542	<0.0542	<0.0542	0.200	<0.0542				0.200	
SV-535-04	LB	4/19/2001	<0.0530	<0.0530	<0.0530	<0.0530	<0.0530	0.166	<0.0530				0.166	
SV-535-04 Dup	LB	4/19/2001	<0.0554	<0.0554	<0.0554	<0.0554	<0.0554	0.164	<0.0554				0.164	
SV-535-05	LB (A)	4/19/2001	<0.0551	<0.0551	<0.0551	<0.0551	<0.0551	0.228	<0.0543				0.228	
SV-535-06	LB	4/19/2001	<0.0554	<0.0554	<0.0554	<0.0554	<0.0554	0.161	<0.0554				0.161	
SV-535-07	LB	4/19/2001	<0.0543	<0.0543	<0.0543	<0.0543	<0.0543	0.136	<0.0543				0.136	
SV-535-08	LB	4/19/2001	<0.0555	<0.0555	<0.0555	<0.0555	<0.0555	0.0735	<0.0555				0.0735	
SV-535-09	LB	4/19/2001	<0.0553	<0.0553	<0.0553	<0.0553	<0.0553	0.120	0.0571				0.177	
SV-535-10	LB	4/19/2001	<0.0551	<0.0551	<0.0551	<0.0551	<0.0551	0.209	0.0565				0.266	
SV-535-11	LB	4/27/2001	<0.0507	<0.0507	<0.0507	<0.0507	<0.0507	<0.0507	<0.0507				0.000	
SV-535-12	LB	4/19/2001	<0.0549	<0.0549	<0.0549	<0.0549	<0.0549	0.218	<0.0549				0.218	
SV-535-13	CC	4/19/2001	<0.0542	<0.0542	<0.0542	0.0674	<0.0542	1.50	0.300				1.87	
SV-535-14	CC	4/19/2001	<0.0539	<0.0539	<0.0539	<0.0539	<0.0539	0.799	0.195				0.994	
SV-535-15	CC	4/19/2001	<0.0541	<0.0541	<0.0541	<0.0541	<0.0541	0.177	<0.0541				0.177	
SV-535-16	HB	4/19/2001	<0.0507	<0.0507	<0.0507	<0.0507	<0.0507	0.504	0.066				0.570	
SV-535-17	HB	4/27/2001	<0.266	<0.266	<0.266	0.586	<0.266	3.82	0.556				4.96	
SV-535-18	HB	4/19/2001	<0.0513	<0.0513	<0.0513	0.170	<0.0513	1.17	0.153				1.49	
SV-535-19	HB	4/19/2001	<0.166	<0.166	<0.166	0.595	<0.166	3.140	0.499				4.23	
SV-535-20	HB	4/20/2001	<0.206	<0.206	<0.206	0.666	<0.206	3.76	0.530				4.96	
SV-535-21	HB	4/20/2001	<0.108	<0.108	<0.108	0.132	<0.108	1.32	0.187				1.64	
SV-535-22	HB	4/20/2001	<0.105	<0.105	<0.105	0.335	<0.105	2.19	0.307				2.83	
SV-535-23	HB	4/20/2001	<0.107	<0.107	<0.107	0.298	<0.107	1.470	0.213				1.98	
SV-535-24	HB	4/20/2001	<0.333	<0.333	<0.333	0.831	<0.333	4.99	0.760				6.58	

LMB - Large Mouth Bass BG - Blue Gill
HB - Hybrid Bass TS - Thread Fin Shad
CC - Catfish < - Indicates as undetected value
GS - Gisard Shad

Table 4 OU2 Fish Study - Aroclor and Total PCB Results - Spring 2001

Sample Number	Species & Number	Date Sampled	Aroclor Identification- ug/g								Total PCB - µg/g	
			1016	1221	1232	1242	1248	1254	1260			
SV-642-01	LB	4/19/2001	<0.0541	<0.0541	<0.0541	<0.0541	<0.0541	0.496	0.162		0.658	
SV-642-02	LB	4/19/2001	<0.0552	<0.0552	<0.0552	<0.0552	<0.0552	<0.0552	<0.0552		0.00	
SV-642-03	LB	4/19/2001	<0.0534	<0.0534	<0.0534	<0.0534	<0.0534	0.126	0.0918		0.218	
SV-642-04	LB	4/19/2001	<0.0528	<0.0528	<0.0528	<0.0528	<0.0528	0.0722	0.0566		0.129	
SV-642-05	LB	4/19/2001	<0.0549	<0.0549	<0.0549	<0.0549	<0.0549	0.076	<0.0549		0.076	
SV-642-06	LB	4/19/2001	<0.0537	<0.0537	<0.0537	<0.0537	<0.0537	0.1010	<0.0534		0.101	
SV-642-07	LB	4/19/2001	<0.0537	<0.0537	<0.0537	<0.0537	<0.0537	<0.0537	<0.0537		0.00	
SV-642-08	LB	4/19/2001	<0.0547	<0.0547	<0.0547	<0.0547	<0.0547	<0.0547	<0.0547		0.00	
SV-642-09	LB	4/19/2001	<0.0543	<0.0543	<0.0543	<0.0543	<0.0543	0.0986	0.0679		0.167	
SV-642-10	LB	4/19/2001	<0.0530	<0.0530	<0.0530	<0.0530	<0.0530	<0.0530	<0.0530		0.00	
SV-642-10 Dup	LB	4/19/2001	<0.0540	<0.0540	<0.0540	<0.0540	<0.0540	<0.0540	<0.0540		0.00	
SV-642-11	CC	4/19/2001	<0.0554	<0.0554	<0.0554	<0.0554	<0.0554	<0.0554	<0.0554		0.00	
SV-642-12	HB	4/20/2001	<0.0551	<0.0551	<0.0551	<0.0551	<0.0551	0.0847	<0.0551		0.0847	
SV-642-13	HB	4/20/2001	<0.0536	<0.0536	<0.0536	<0.0536	<0.0536	0.791	0.137		0.928	
SV-642-14	HB	4/20/2001	<0.0536	<0.0536	<0.0536	<0.0536	<0.0536	0.385	0.0613		0.446	
SV-642-15	HB	4/20/2001	<0.0542	<0.0542	<0.0542	0.0624	<0.0542	0.820	0.108		0.99	
SV-642-16	HB	4/20/2001	<0.0219	<0.0219	<0.0219	0.541	<0.0219	3.41	0.525		4.48	
SV-642-17	HB	4/20/2001	<0.0314	<0.0314	<0.0314	0.896	<0.0314	5.32	0.776		6.99	
SV-642-17 Dup	HB	4/20/2001	<0.0317	<0.0317	<0.0317	0.885	<0.0317	5.52	0.801		7.21	
SV-642-18	HB	4/20/2001	<0.0517	<0.0517	<0.0517	0.101	<0.0517	1.12	0.148		1.37	
SV-642-19	CC	4/20/2001	<0.0524	<0.0524	<0.0524	<0.0524	<0.0524	0.48	0.0632		0.543	
SV-642-20	CC	4/20/2001	<0.0549	<0.0549	<0.0549	<0.0549	<0.0549	0.0764	<0.0549		0.0764	
SV-642-20 Dup	CC	4/20/2001	<0.0539	<0.0539	<0.0539	<0.0539	<0.0539	0.0712	<0.0539		0.0712	
SV-642-21	CC	4/20/2001	<0.0538	<0.0538	<0.0538	<0.0538	<0.0538	0.124	<0.0538		0.124	
SV-642-22	HB	4/25/2001	<0.101	<0.101	<0.101	0.451	<0.101	2.82	0.478		3.75	
SV-642-23	HB	4/25/2001	<0.0525	<0.0525	<0.0525	0.114	<0.0525	1.03	0.132		1.28	
SV-642-24	HB	4/25/2001	<0.109	<0.109	<0.109	0.477	<0.109	3.05	0.617		4.14	

LMB - Large Mouth Bass BG - Blue Gill
 HB - Hybrid Bass TS - Thread Fin Shad
 CC - Catfish
 GS - Gisard Shad
 < - Indicates as undetected value

Table 5 2001 Lake Hartwell OU2 Fish Study Total PCB Concentrations (ppm) in Largemouth Bass

Replicate	Sample					
Number	SV-107	SV-106	SV-532	SV-535	SV-641	SV-642
01	5.49	4.45 d	0.226	0.200	0.195 d	0.658
02	2.15	3.86	0.938	0.165 d	0.0954	< 0.0552 *
03	9.03	2.6	0.16 d	0.228	0.0595	0.218
04	8.08	1.37	1.24	0.161	< 0.0546 *	0.129
05	2.83	5.02	0.183	0.136	0.104	0.076
06	3.01	1.45	0.309	0.074	< 0.0543 *	0.101
07	2.86 d	1.83	1.33 d	0.177	0.0537	< 0.0537 *
08	13	1.63	0.765	0.266	0.0746	< 0.0547 *
09	5.78	0.624	0.752	< 0.0507 *	0.82	0.167
10	17.1	1.21	0.806	0.218	0.1820	< 0.02675 *d
Mean	6.93	2.40	0.67	0.17	0.16	0.14
Std. Dev.	4.96	1.52	0.43	0.07	0.23	0.19

*One half of the detection limit is used for the averaging value.

d = duplicate, average of duplicate and value is used for averaging value

Largemouth Bass

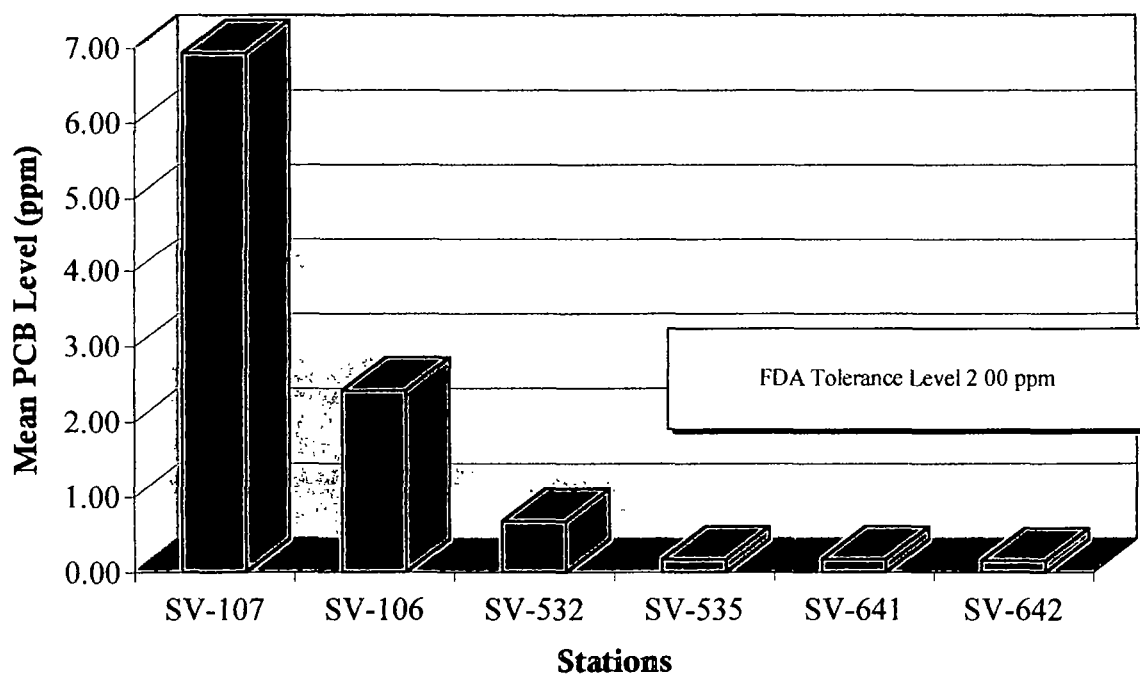


Table 6 2001 Lake Hartwell OU2 Fish Study Total PCB Concentrations (ppm) in Hybrid Bass

Replicate Number	Sample					
	SV-107	SV-106	SV-532	SV-535	SV-641	SV-642
01	8.54	3.05	4.575 d	1.15	0.32	0.0847
02	5.900	4.55	4.35	0.57	3.83	0.928
03	6.81	2.74	3.34	4.96	3.78	0.446
04	6.87	2.03	2.54	1.49	0.89 d	0.99
05	5.64	4.78	2.06	4.23	4.29	4.48
06	3.98	3.59	1.42	4.96	1.14	7.100 d
07	8.00	7.63	1.09	1.64	3.32	1.37
08	3.91	3.435 d	1.69	2.83	0.342	3.75
09	7.00	2.03	3.52	1.98	4.04	1.28
10		3.07	1.45	6.58	3.1	4.14
11		2.03				
Mean	6.29	3.54	2.60	3.04	2.51	2.46
Std. Dev.	1.61	1.65	1.27	2.01	1.63	2.28

*One half of the detection limit is used for the averaging value

d = duplicate, average of duplicate and value is used for averaging value

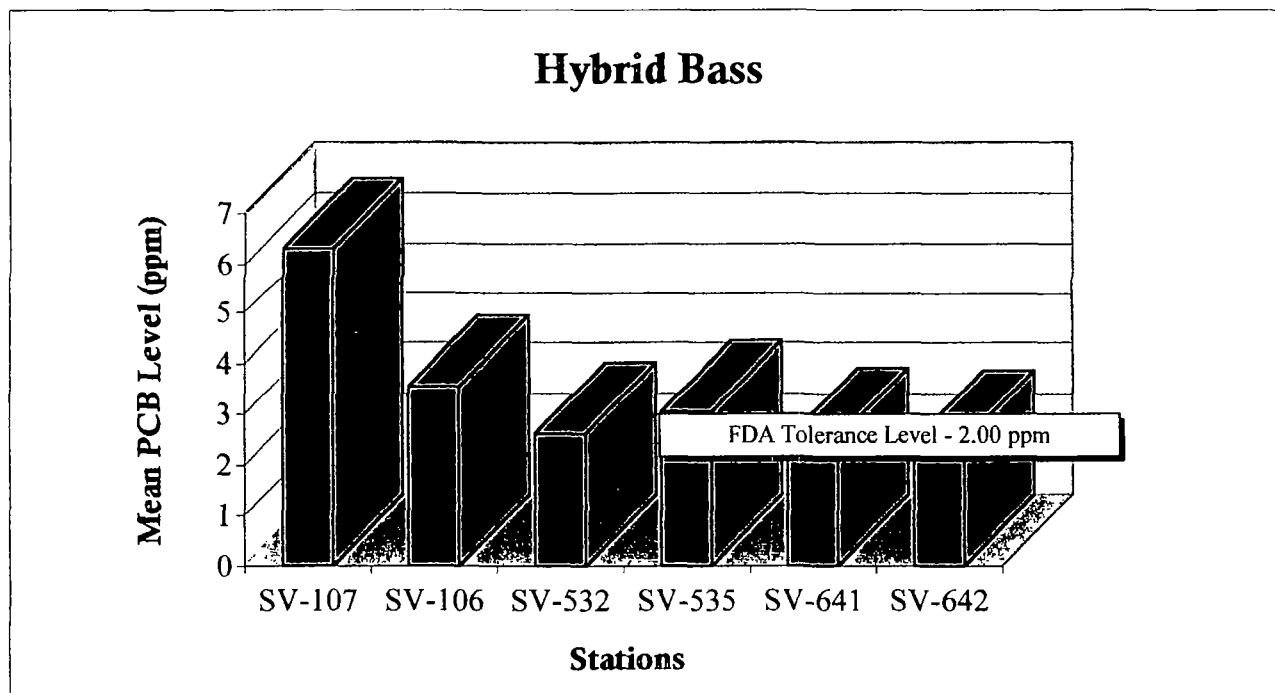


Table 7 2001 Lake Hartwell OU2 Fish Study Total PCB Concentrations (ppm) in Channel Catfish

Replicate	Station					
Number	SV-107	SV-106	SV-532	SV-535	SV-641	SV-642
01	3.95 d	0.71	0.553	0.72 d	0.785 d	< 0.0518 *
02	1.93	1.27	1.55 d	1.87	0.284	0.543
03	1.13	1.44	0.56	0.994	0.865	0.07 d
04	0.611	0.468	0.936	0.177	0.403	0.124
Mean	1.91	0.97	0.90	0.94	0.58	0.19
Std. Dev.	1.47	0.46	0.47	0.71	0.28	0.23

d = duplicate, average of duplicate and value is used for averaging value

*One half of the detection limit is used for the averaging value

Channel Catfish

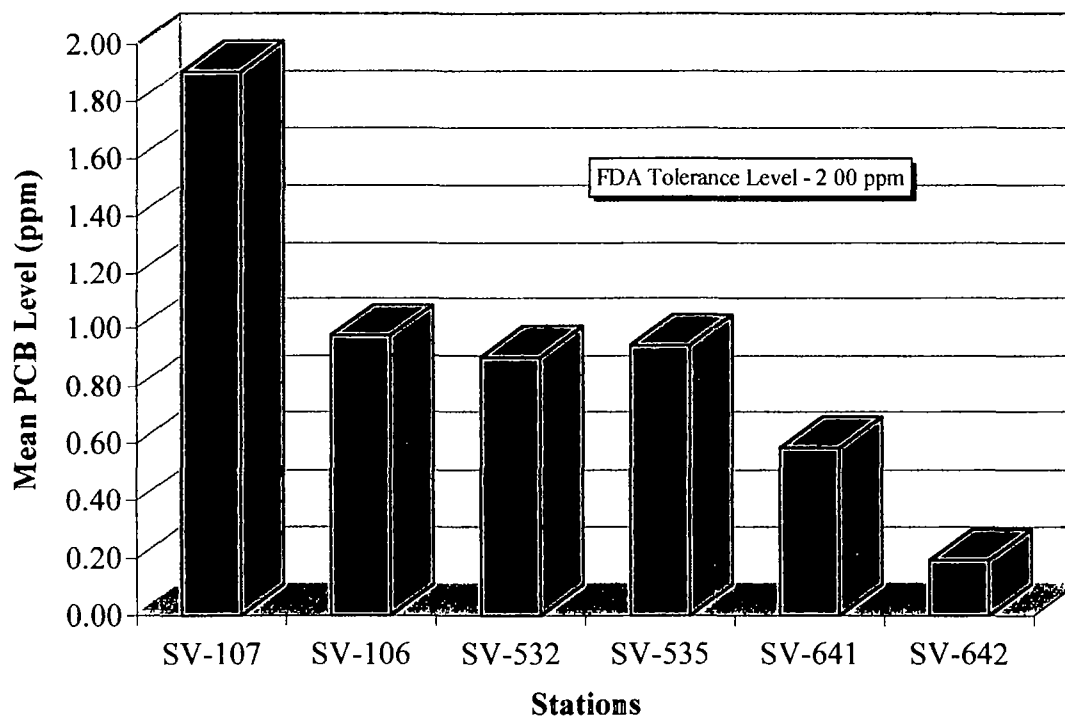


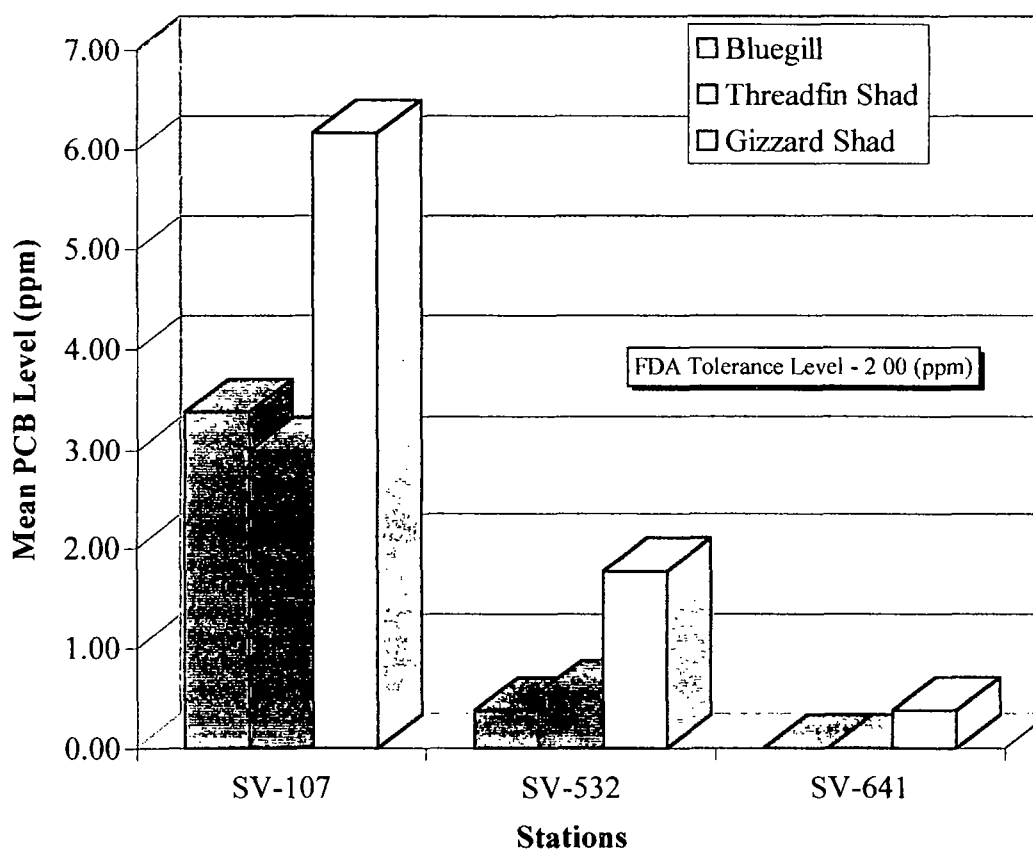
Table 8 2001 Lake Hartwell OU2 Fish Study Total PCB Concentrations (ppm) in Bluegill, Threadfin Shad, and Gizzard Shad Composites

Species	Station					
Composite	SV-107	SV-106	SV-532	SV-535	SV-641	SV-642
Bluegill	3.37	NA	0.369	NA	<0.0550 *	NA
Threadfin Shad	2.99	NA	0.55	NA	<0.0514 *	NA
Gizzard Shad	6.16	NA	1.76	NA	0.37	NA

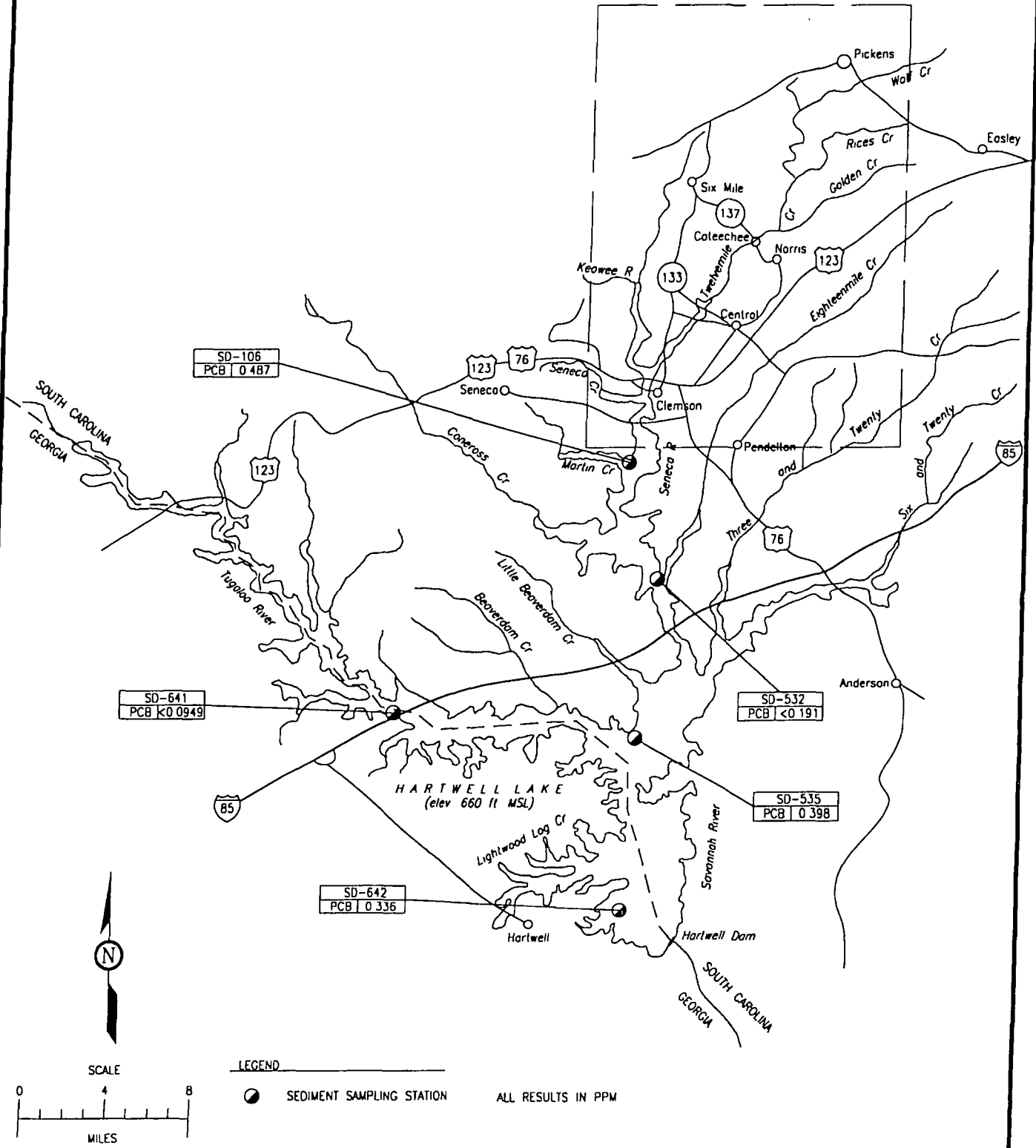
d = duplicate

*One half of the detection limit is used for the averaging value

Bluegill, Threadfin Shad, and Gizzard Shad



TWELVEMILE CREEK AREA RESULTS SHOWN IN FIGURE 2



45170112A
MUM1 9-10-01 MLW

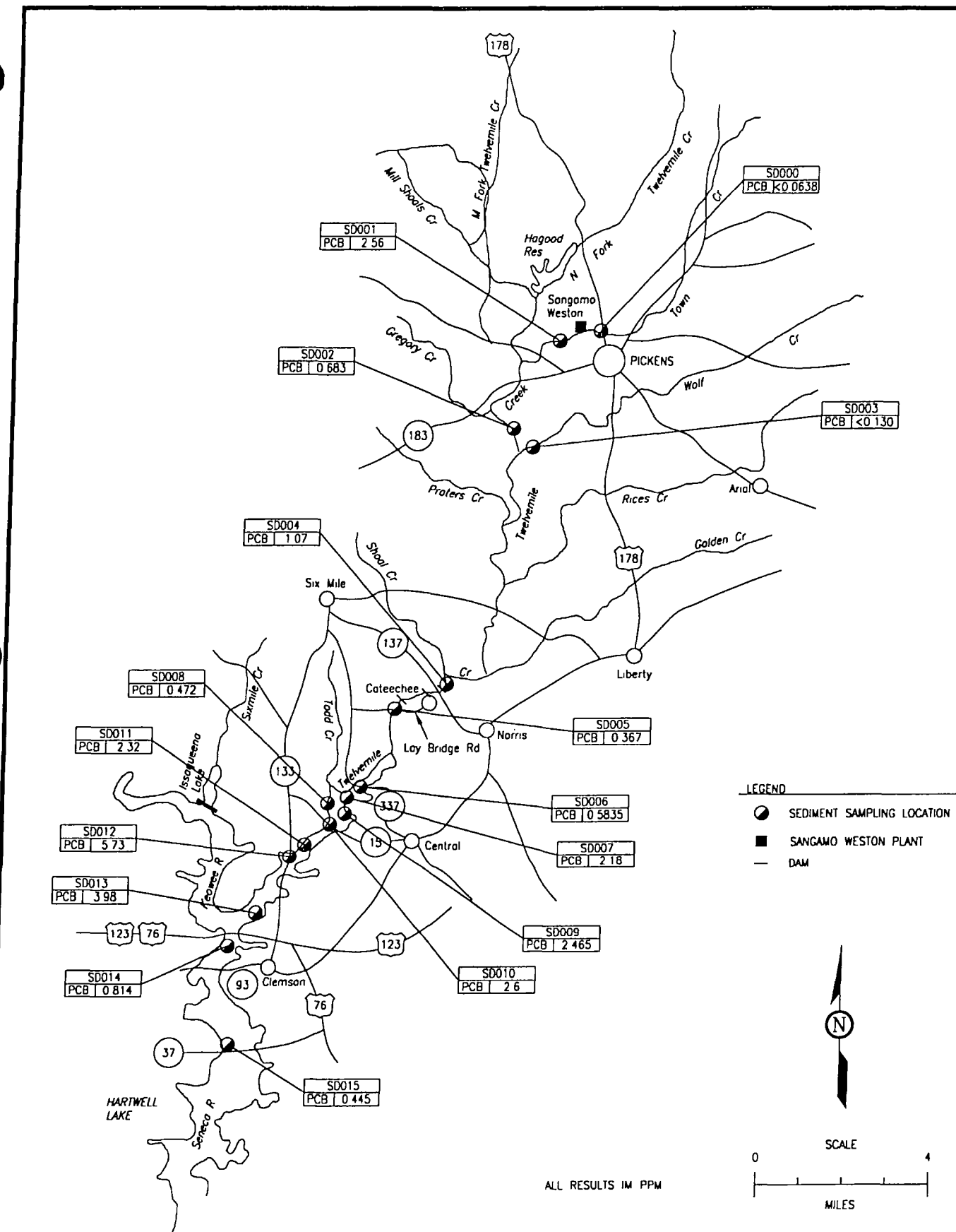


ERM-Southeast, Inc.
Brentwood, Tennessee

SEDIMENT SAMPLING LOCATIONS IN
LAKE HARTWELL SHOWING PCB ANALYTICAL
RESULTS FOR 2001 OU2 FISH STUDY

FIGURE

1



ERM-Southeast, Inc.
Brentwood, Tennessee

SEDIMENT SAMPLING LOCATIONS IN TWELVEMILE
CREEK SHOWING PCB ANALYTICAL RESULTS
FOR 2001 OU2 FISH STUDY

FIGURE

2

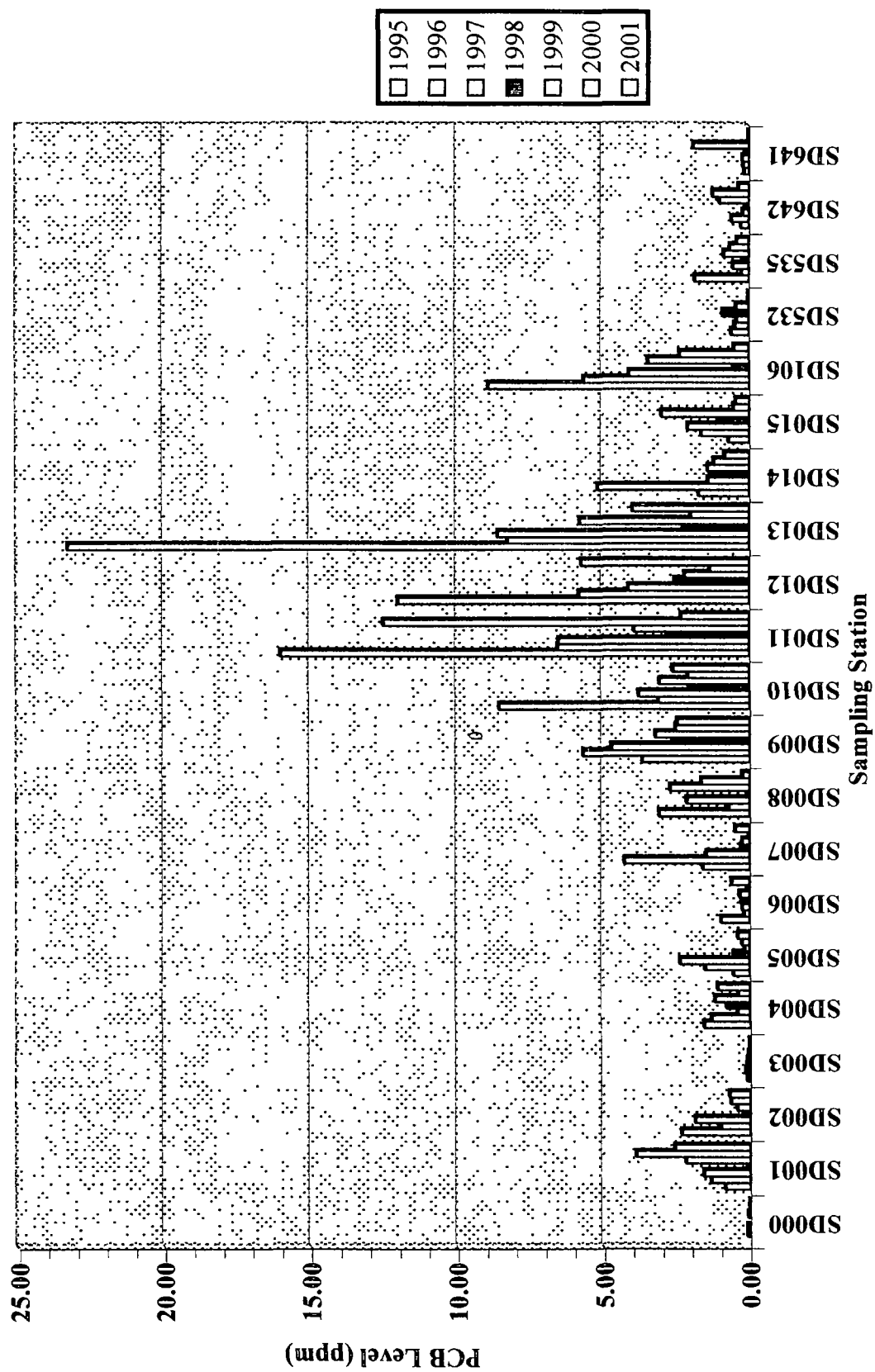


Figure 3 PCB Levels in Sediment Samples (1995-2001), Lake Hartwell OU2 Fish Study

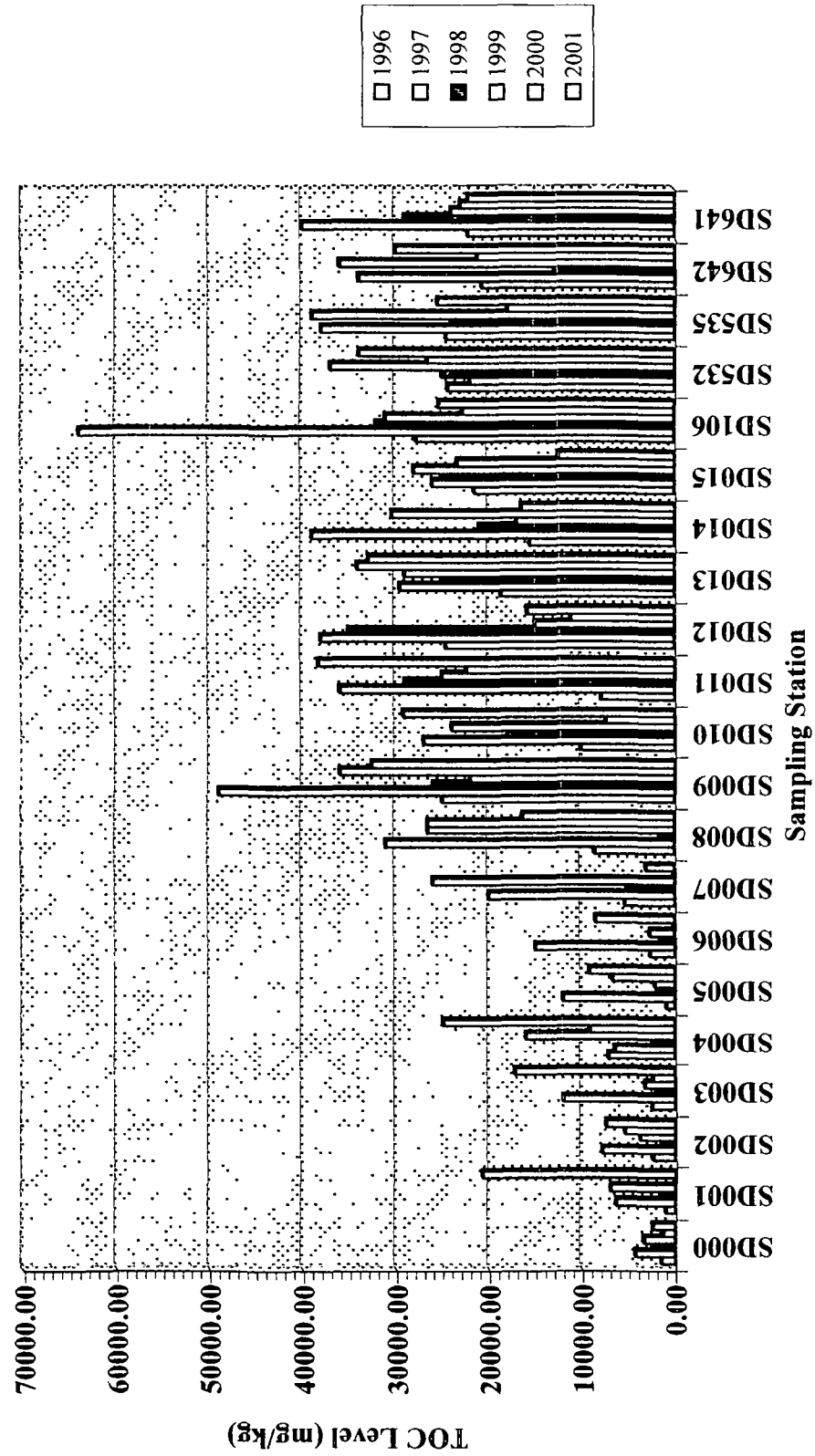
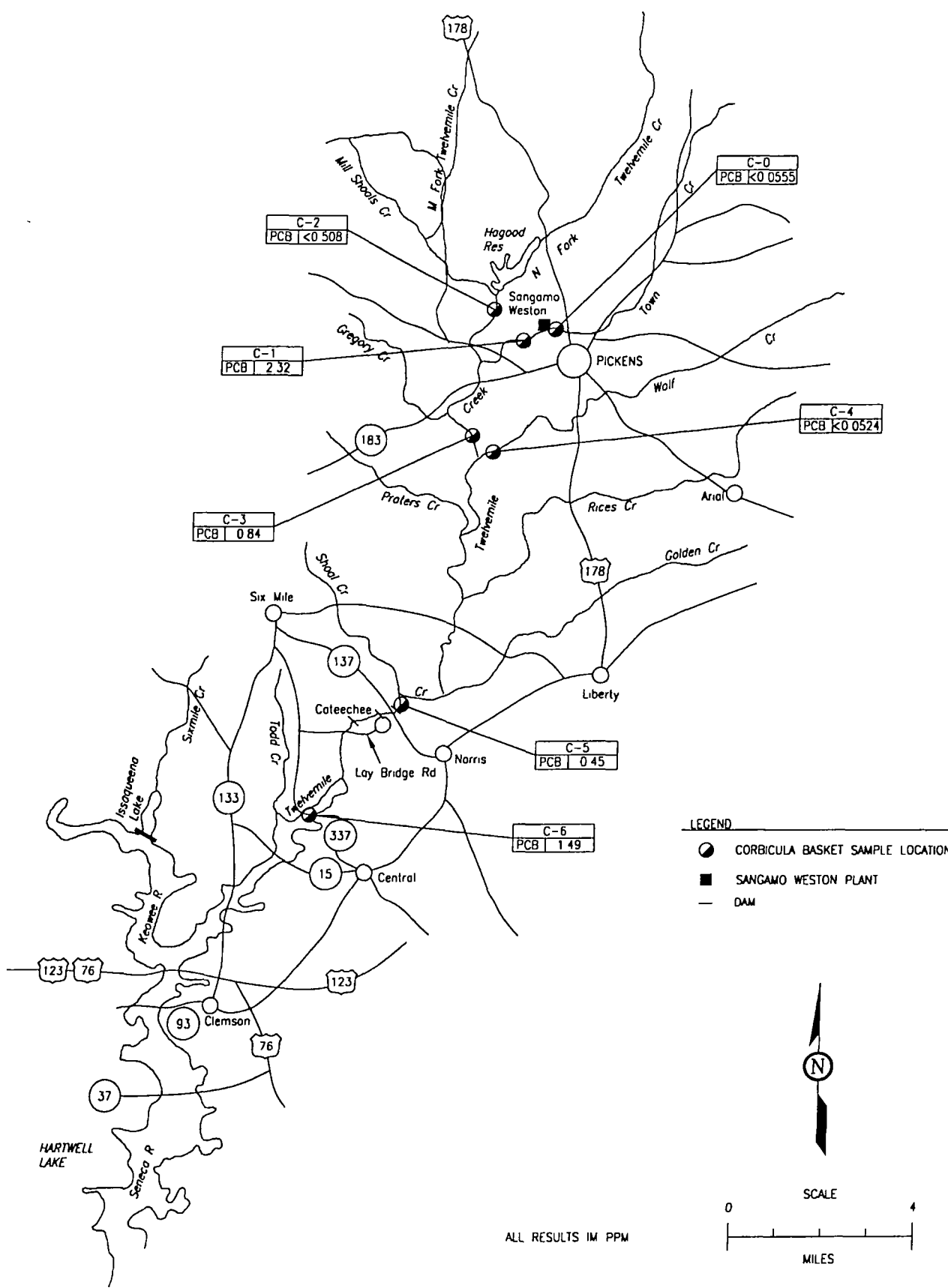


Figure 4 TOC Levels in Sediment Samples (1996-2001), Lake Hartwell OU2 Fish Study

4517D115A
H-LUM1 9-10-01 MLW



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Brentwood, Tennessee

CORBICULA BASKET SAMPLING LOCATIONS
IN TWELVEMILE CREEK WATERSHED
SPRING 2001

FIGURE
5

Corbicula

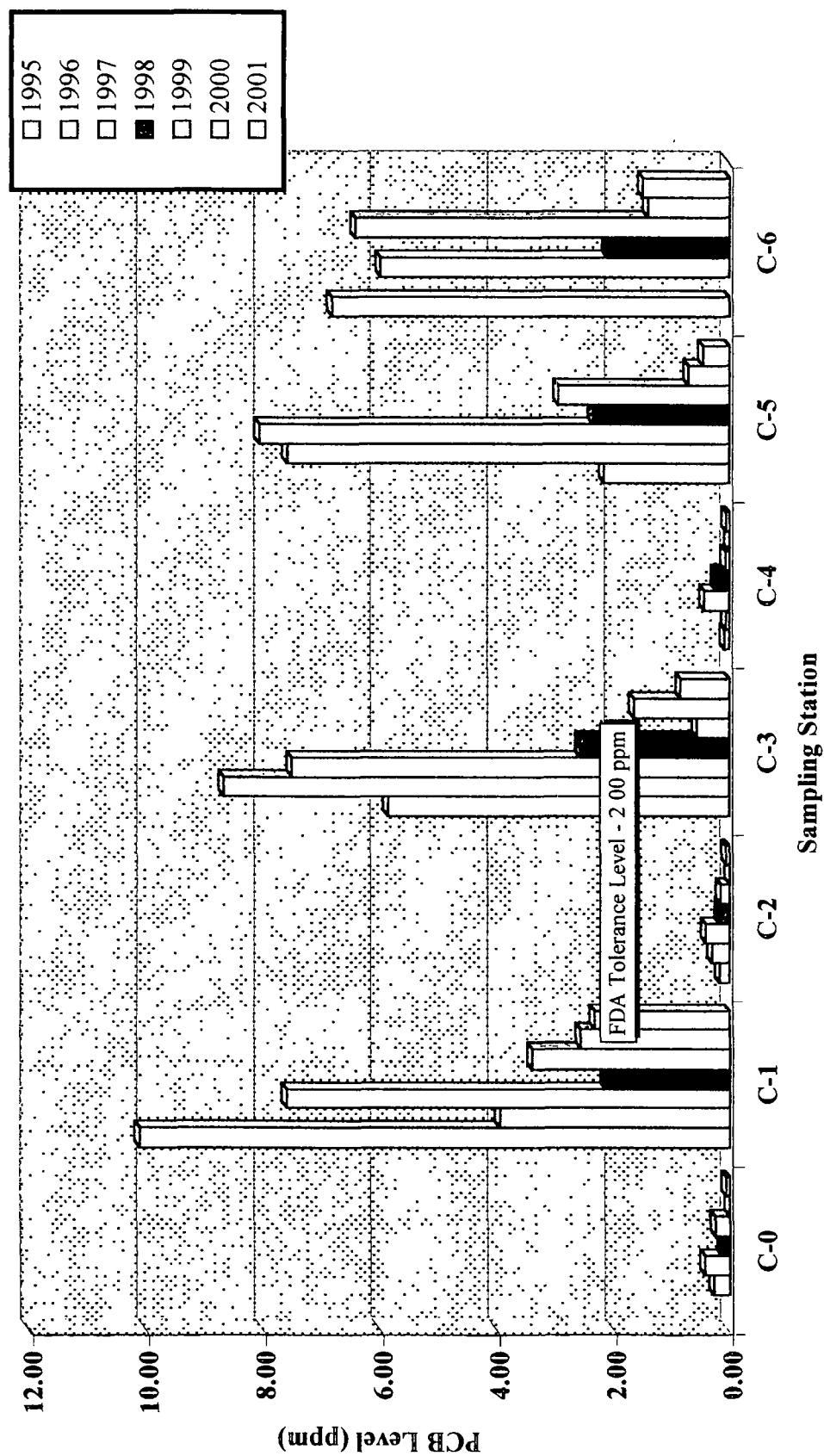
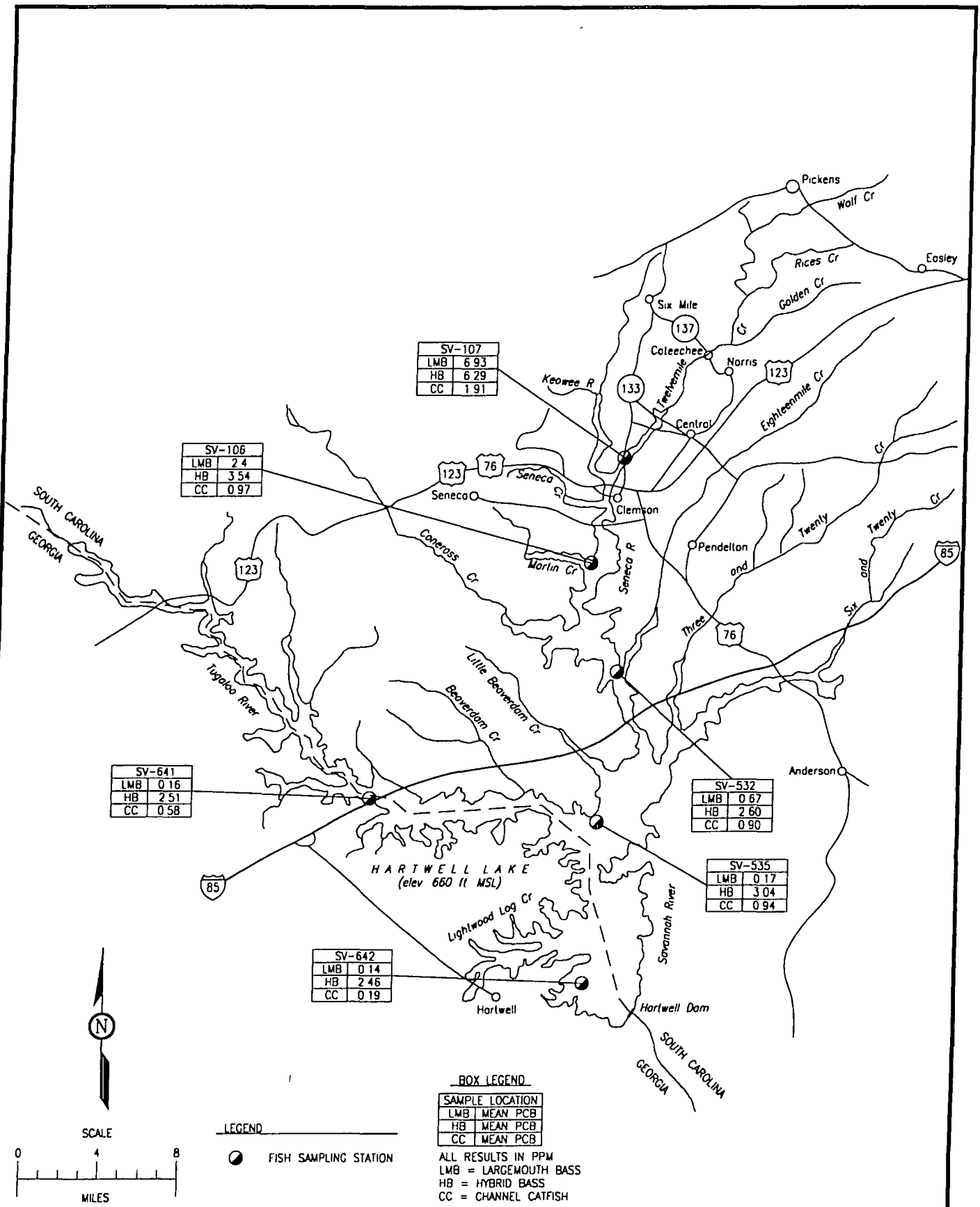


Figure 6 PCB Levels in *Corbicula* Composite Samples (1995-2001), Lake Hartwell OU2 Fish Study



ERM-Southeast, Inc.
Brentwood, Tennessee

FISH SAMPLING STATIONS IN
LAKE HARTWELL SHOWING PCB ANALYTICAL
RESULTS FOR 2001 OU2 FISH STUDY

FIGURE

7

Largemouth Bass

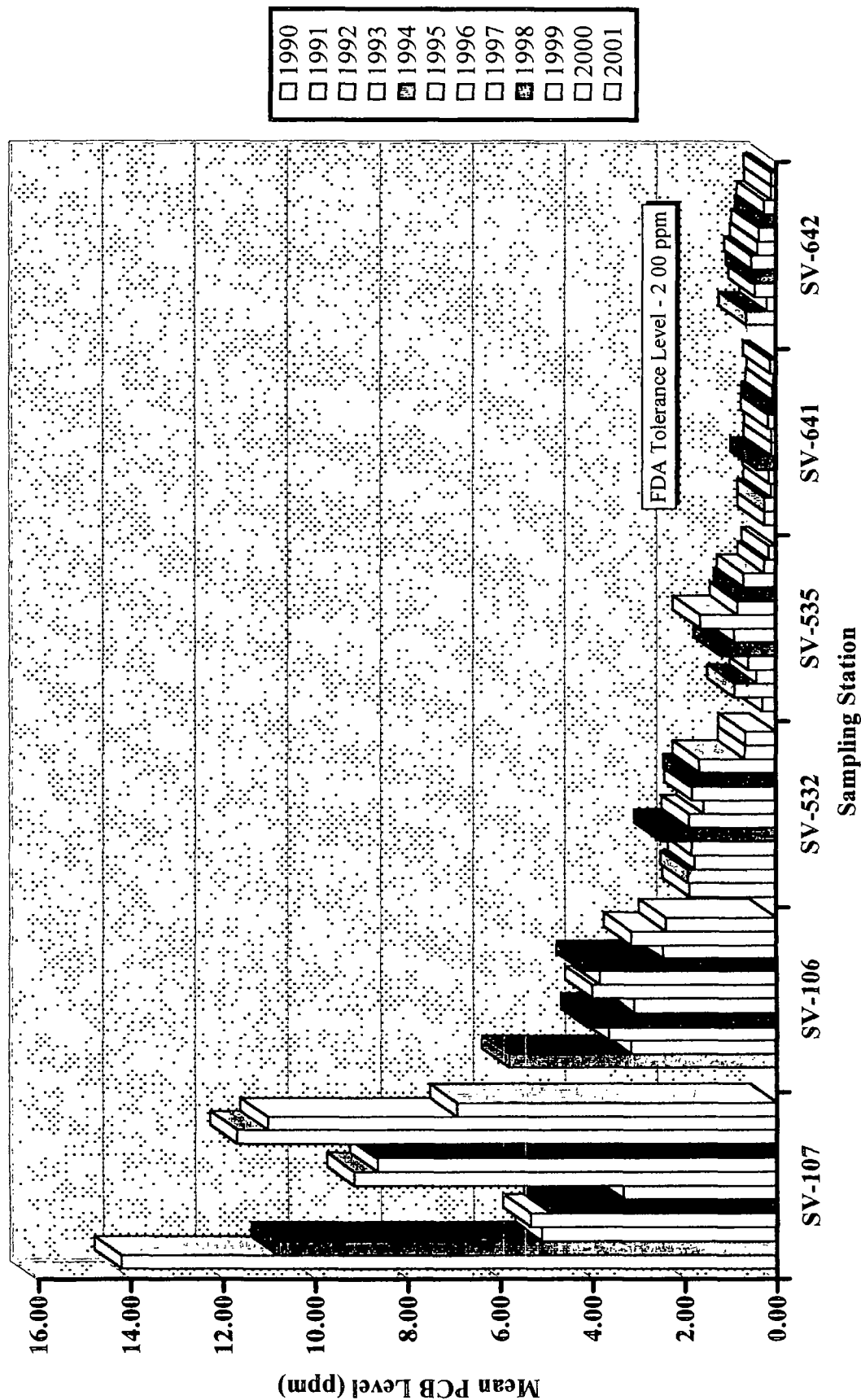


Figure 8 PCB Levels in Largemouth Bass Fillet Samples (1990-2001), Lake Hartwell OU2 Fish Study

Hybrid Bass

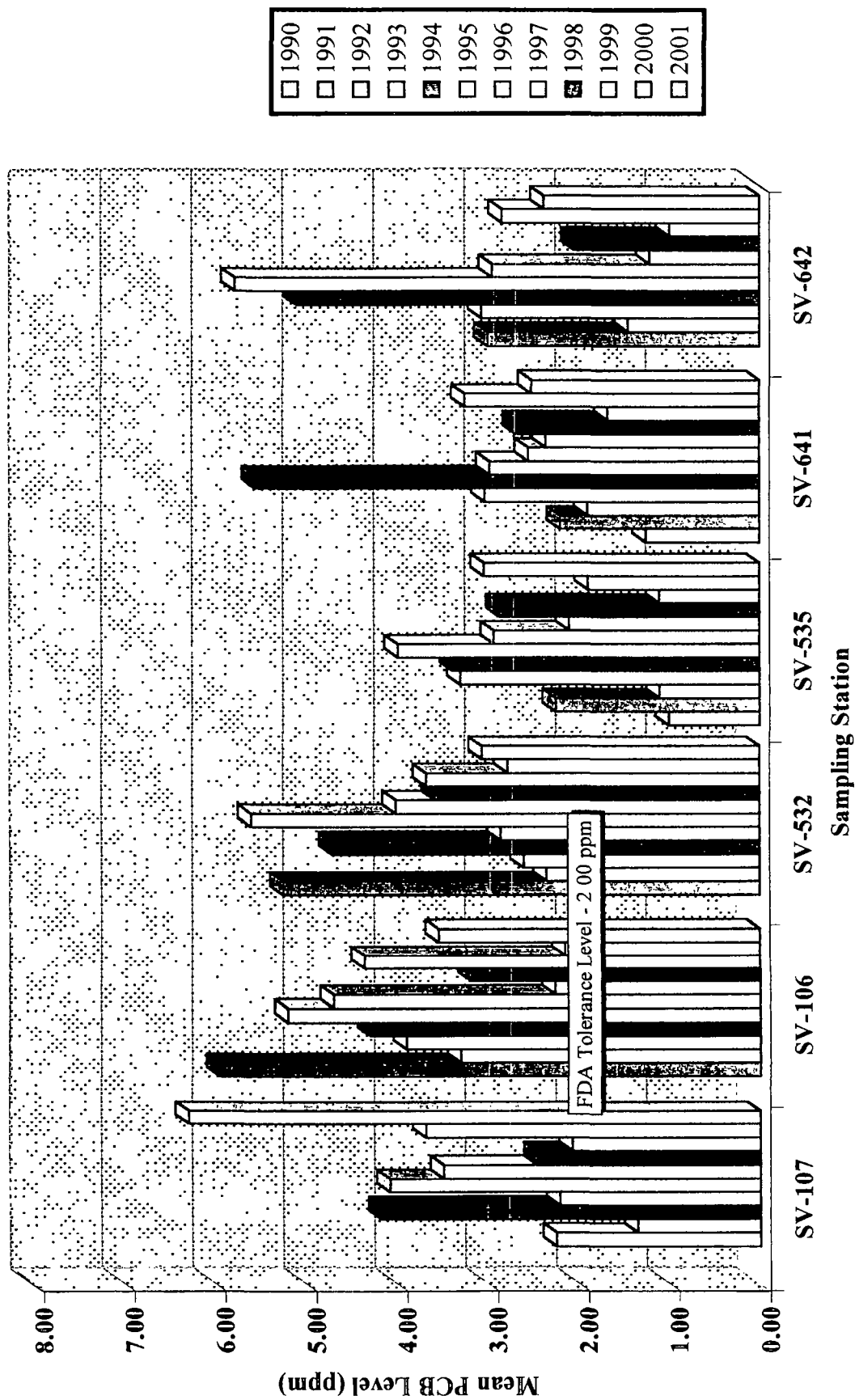


Figure 9 PCB Levels in Hybrid Bass Fillet Samples (1990-2001), Lake Hartwell OU2 Fish Study

Channel Catfish

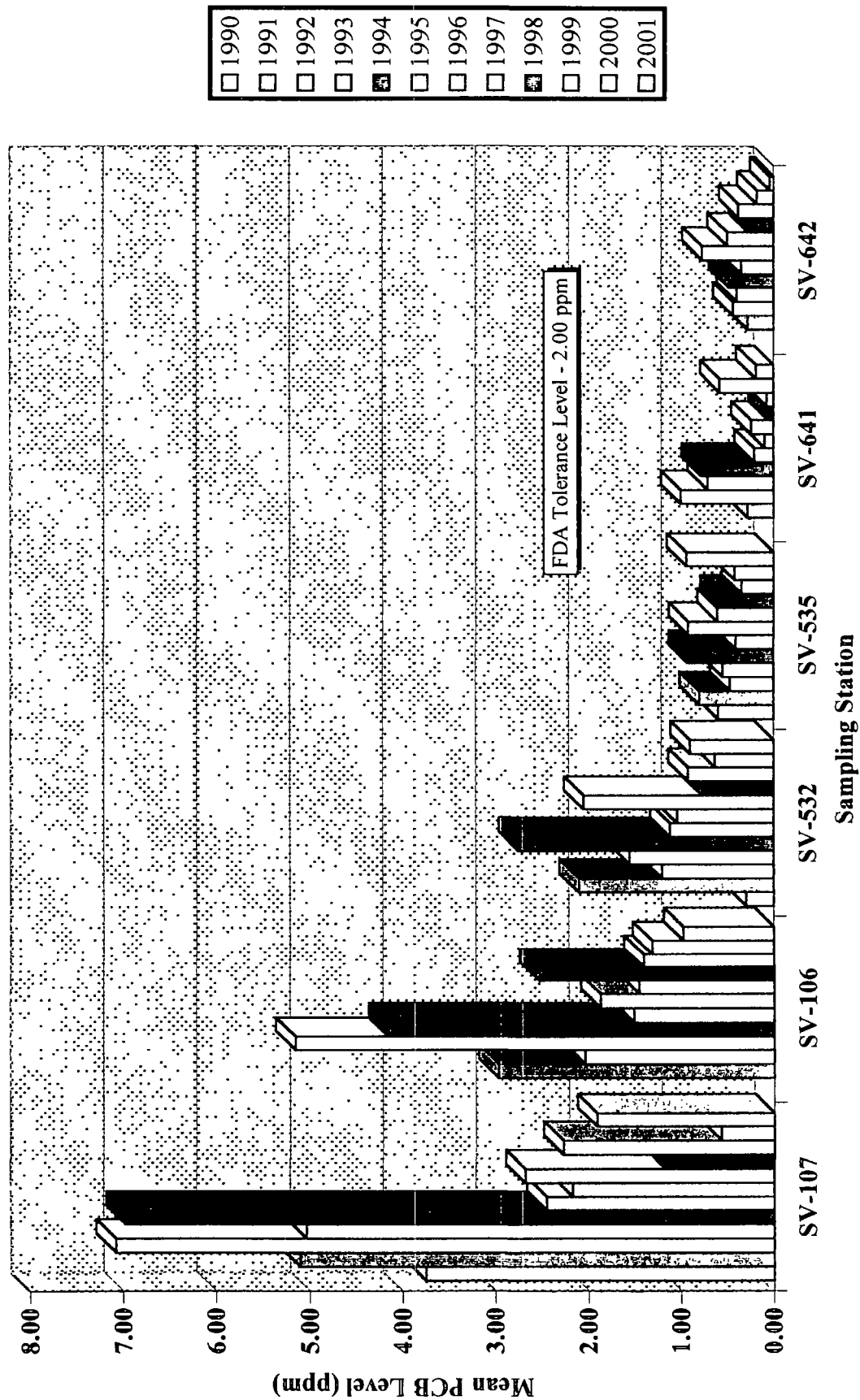


Figure 10 PCB Levels in Channel Catfish Fillet Samples (1990-2001), Lake Hartwell OU2 Fish Study

Bluegill

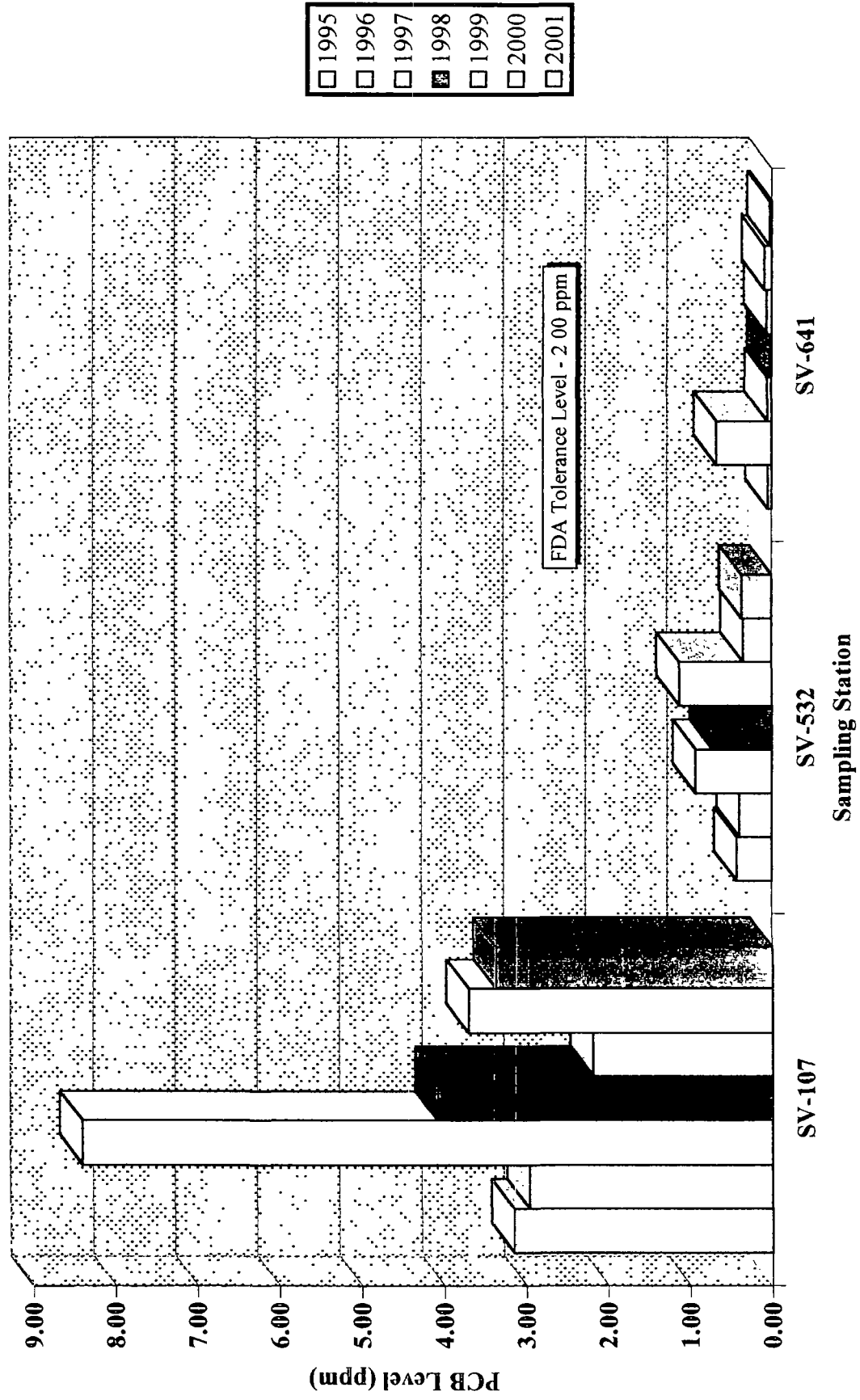


Figure 11 PCB Levels in Bluegill Composite Samples (1995-2001), Lake Hartwell OU2 Fish Study

Threadfin Shad

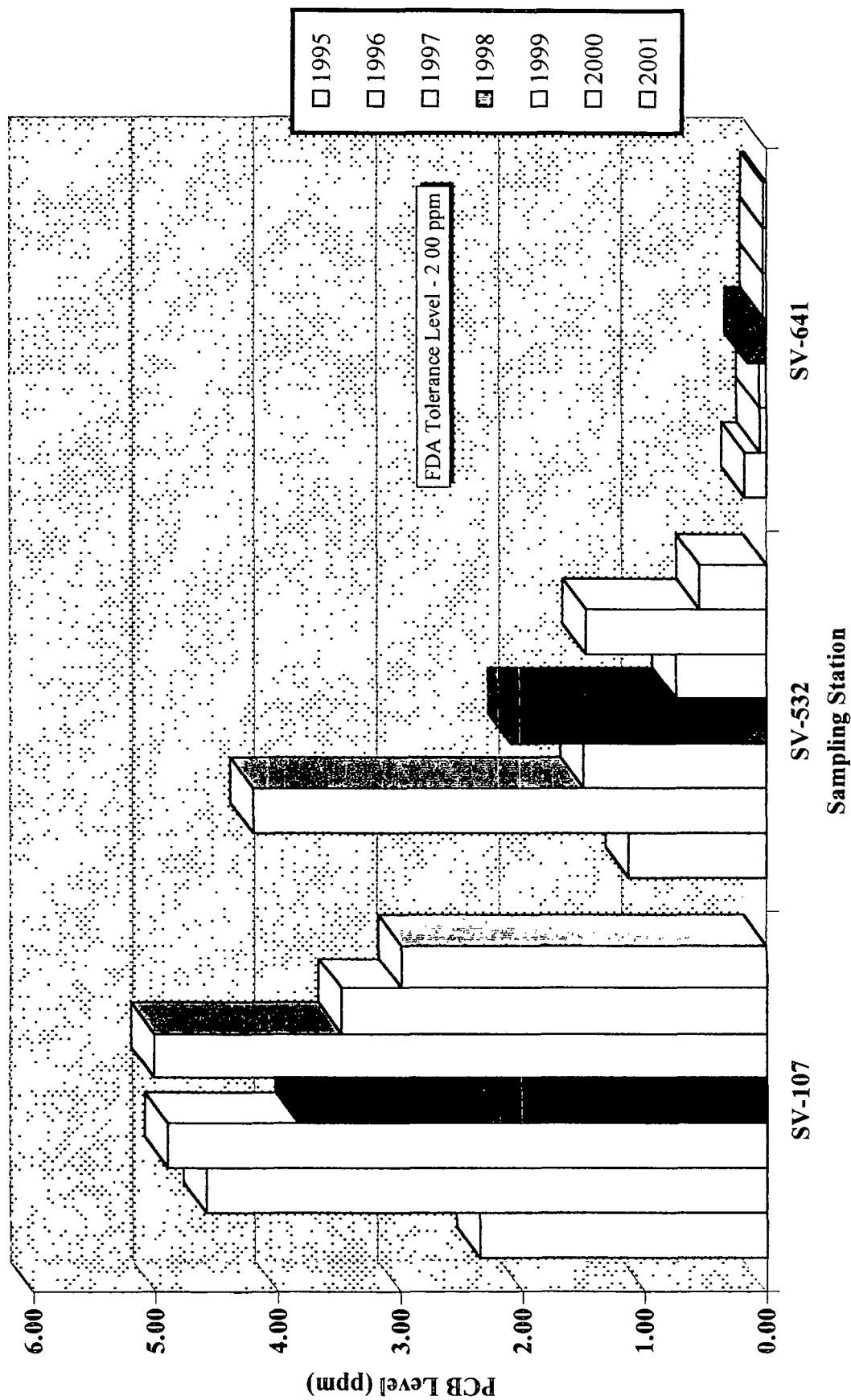


Figure 12 PCB Levels in Threadfin Shad Composite Samples (1995-2001), Lake Hartwell OU2 Fish Study

Gizzard Shad

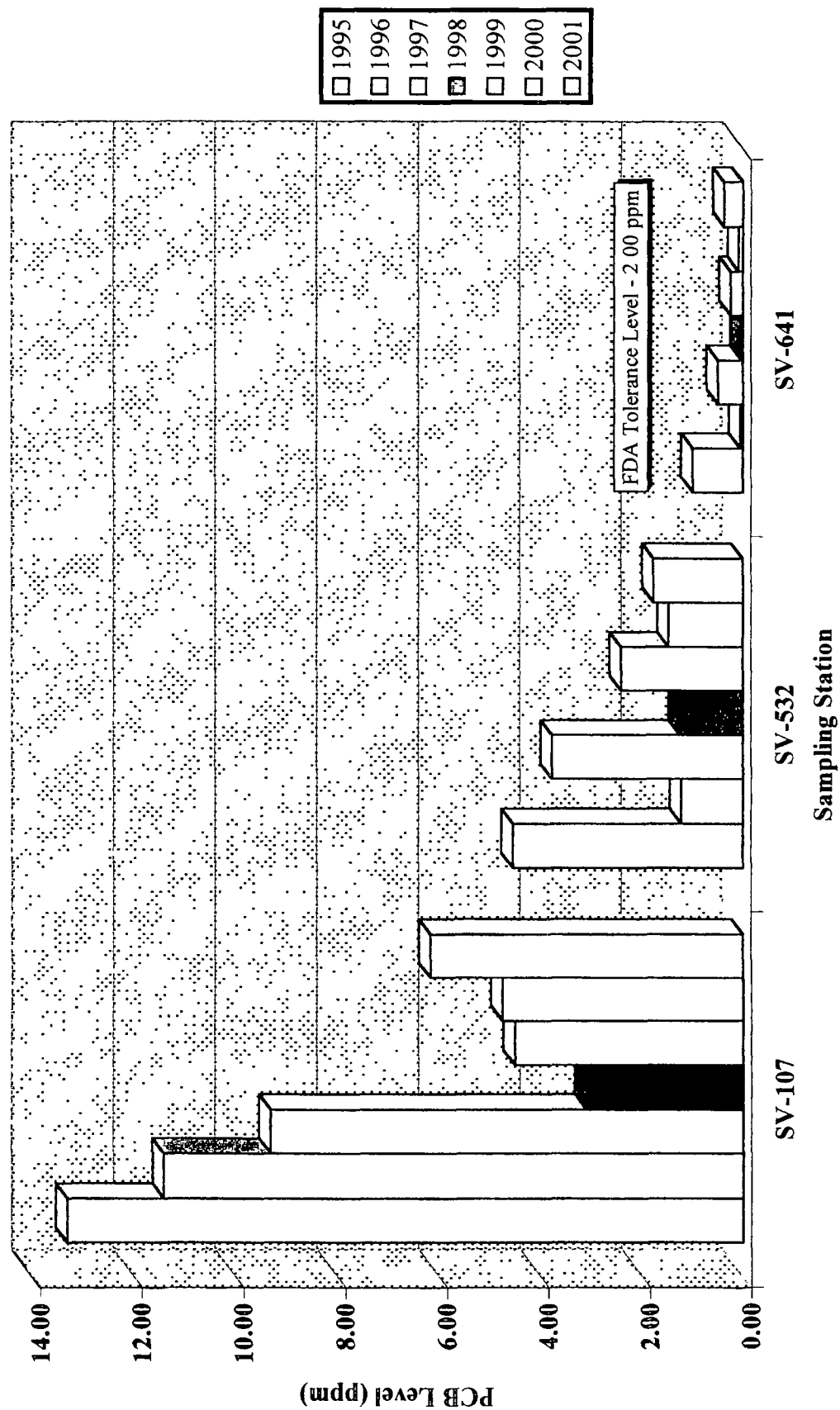


Figure 13 PCB Levels in Gizzard Shad Composite Samples (1995-2001), Lake Hartwell OU2 Fish Study

Appendix A
Sediment Analytical Data Sheets

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS

05/11/2001

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

MATRIX : SEDIMENT DATE SAMPLED: 04/26/2001
DATE RECEIVED: 04/28/2001 TIME: 11:30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

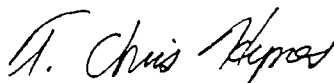
NEA ID	CUSTOMER ID	PARAMETER PERFORMED	METHOD	RESULTS	PQL	UNITS	DATE TESTED
AE02798	SD-001	Total Organic Carbon	SW-846 9060/Lloyd Kahn	20700	3340	mg/kg	5/9/01
AE02799	SD-000	Total Organic Carbon	SW-846 9060/Lloyd Kahn	2310	1440	mg/kg	5/9/01
AE02800	SD-002	Total Organic Carbon	SW-846 9060/Lloyd Kahn	7400	3950	mg/kg	5/9/01
AE02801	SD-003	Total Organic Carbon	SW-846 9060/Lloyd Kahn	17200	4240	mg/kg	5/9/01
AE02802	SD-004	Total Organic Carbon	SW-846 9060/Lloyd Kahn	24900	3690	mg/kg	5/9/01
AE02803	SD-005	Total Organic Carbon	SW-846 9060/Lloyd Kahn	9150	3280	mg/kg	5/9/01
AE02804	SD-006	Total Organic Carbon	SW-846 9060/Lloyd Kahn	7450	3200	mg/kg	5/10/01
AE02805	SD106	Total Organic Carbon	SW-846 9060/Lloyd Kahn	25300	7870	mg/kg	5/10/01
AE02806	SD532	Total Organic Carbon	SW-846 9060/Lloyd Kahn	33900	4760	mg/kg	5/10/01
AE02807	SD0061	Total Organic Carbon	SW-846 9060/Lloyd Kahn	9540	3950	mg/kg	5/10/01

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc
Robert E. Wagner, Laboratory Director



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05/04/2001

ERM- SOUTHEAST, INC.

7106 CROSSROADS BLVD.

SUITE 228

BRENTWOOD, TN 37027

CONTACT: JIM ORR

MATRIX : SEDIMENT **DATE SAMPLED:** 04/25/2001
DATE RECEIVED: 04/27/2001 **TIME:** 10 30 **PROJECT:** FISH STUDY
SAMPLED BY: J ORR **LOCATION:** CLEMSON SC
CUSTOMER PO: N/A **LAB ELAP #:** 11078

NEA ID	CUSTOMER ID	PARAMETER PERFORMED	METHOD	RESULTS	PQL	UNITS	DATE TESTED
AE02788	SD-007	Total Organic Carbon	SW-846 9060/Lloyd Kahn	3000	2460	mg/kg	5/3/01
AE02789	SD-008	Total Organic Carbon	SW-846 9060/Lloyd Kahn	16300	3110	mg/kg	5/3/01
AE02790	SD-009	Total Organic Carbon	SW-846 9060/Lloyd Kahn	35700	12800	mg/kg	5/3/01
AE02791	SD0091	Total Organic Carbon	SW-846 9060/Lloyd Kahn	29500	11000	mg/kg	5/3/01
AE02792	SD010	Total Organic Carbon	SW-846 9060/Lloyd Kahn	29200	5690	mg/kg	5/3/01
AE02793	SD011	Total Organic Carbon	SW-846 9060/Lloyd Kahn	38300	10100	mg/kg	5/3/01
AE02794	SD012	Total Organic Carbon	SW-846 9060/Lloyd Kahn	15800	3840	mg/kg	5/3/01
AE02795	SD013	Total Organic Carbon	SW-846 9060/Lloyd Kahn	32900	6040	mg/kg	5/3/01
AE02796	SD014	Total Organic Carbon	SW-846 9060/Lloyd Kahn	16500	4810	mg/kg	5/3/01
AE02797	SD015	Total Organic Carbon	SW-846 9060/Lloyd Kahn	12500	5090	mg/kg	5/3/01

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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05/11/2001

ERM- SOUTHEAST, INC.

7106 CROSSROADS BLVD.

SUITE 228

BRENTWOOD, TN 37027

CONTACT: JIM ORR

MATRIX : SEDIMENT **DATE SAMPLED:** 04/27/2001
DATE RECEIVED: 05/01/2001 **TIME:** 10 00 **PROJECT:** FISH STUDY
SAMPLED BY: J ORR **LOCATION:** CLEMSON SC
CUSTOMER PO: N/A **LAB ELAP #:** 11078

NEA ID	CUSTOMER ID	PARAMETER PERFORMED	METHOD	RESULTS	PQL	UNITS	DATE TESTED
AE02899	SD-535	Total Organic Carbon	SW-846 9060/Lloyd Kahn	25500	2360	mg/kg	5/10/01
AE02900	SD-641	Total Organic Carbon	SW-846 9060/Lloyd Kahn	30000	3090	mg/kg	5/10/01
AE02901	SD-642	Total Organic Carbon	SW-846 9060/Lloyd Kahn	22200	2550	mg/kg	5/10/01

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Northeast Analytical Inc

Robert E. Wagner, Laboratory Director

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05/16/2001

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SD-000 NEA ID: AE02799
MATRIX: SEDIMENT DATE SAMPLED: 04/26/2001 TIME: 11 00
DATE RECEIVED: 04/28/2001 TIME: 11 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 0638	µg/g	5/12/01
Aroclor 1221	ND	0 0638	µg/g	5/12/01
Aroclor 1232	ND	0 0638	µg/g	5/12/01
Aroclor 1242	ND	0 0638	µg/g	5/12/01
Aroclor 1248	ND	0 0638	µg/g	5/12/01
Aroclor 1254	ND	0 0638	µg/g	5/12/01
Aroclor 1260	ND	0 0638	µg/g	5/12/01

Total PCB Amount > Reporting Limit 0 00 µg/g

Note There were several non-target peaks

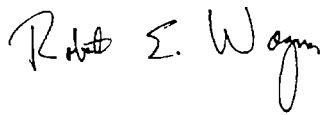
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc

Robert E. Wagner, Laboratory Director



NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS

05/16/2001

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SD-001 NEA ID: AE02798
MATRIX: SEDIMENT DATE SAMPLED: 04/26/2001 TIME: 11 20
DATE RECEIVED: 04/28/2001 TIME: 11 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.124	µg/g	5/12/01	
Aroclor 1221	ND	0.124	µg/g	5/12/01	
Aroclor 1232	ND	0.124	µg/g	5/12/01	
Aroclor 1242	1.86	0.124	µg/g	5/12/01	AD
Aroclor 1248	ND	0.124	µg/g	5/12/01	
Aroclor 1254	0.699	0.124	µg/g	5/12/01	AF
Aroclor 1260	ND	0.124	µg/g	5/12/01	
Total PCB Amount > Reporting Limit	2.56		µg/g		

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

Note: There were several non-target peaks.

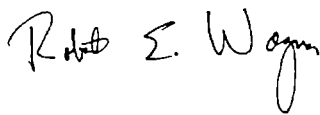
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Robert E. Wagner, Laboratory Director



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(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SD-002 NEA ID: AE02800
MATRIX: SEDIMENT DATE SAMPLED: 04/26/2001 TIME: 12 10
DATE RECEIVED: 04/28/2001 TIME: 11 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0742	µg/g	5/12/01	
Aroclor 1221	ND	0.0742	µg/g	5/12/01	
Aroclor 1232	ND	0.0742	µg/g	5/12/01	
Aroclor 1242	0.192	0.0742	µg/g	5/12/01	AD, DF
Aroclor 1248	ND	0.0742	µg/g	5/12/01	
Aroclor 1254	0.491	0.0742	µg/g	5/12/01	AF
Aroclor 1260	ND	0.0742	µg/g	5/12/01	
Total PCB Amount > Reporting Limit	0.683		µg/g		

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

DF-The Aroclor pattern exhibited by this sample has a diminished front end pattern compared to an Aroclor standard.

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Robert E. Wagner, Laboratory Director

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NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SD-003 NEA ID: AE02801
MATRIX: SEDIMENT DATE SAMPLED: 04/26/2001 TIME: 12 40
DATE RECEIVED: 04/28/2001 TIME: 11 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.130	µg/g	5/12/01
Aroclor 1221	ND	0.130	µg/g	5/12/01
Aroclor 1232	ND	0.130	µg/g	5/12/01
Aroclor 1242	ND	0.130	µg/g	5/12/01
Aroclor 1248	ND	0.130	µg/g	5/12/01
Aroclor 1254	ND	0.130	µg/g	5/12/01
Aroclor 1260	ND	0.130	µg/g	5/12/01

Total PCB Amount > Reporting Limit 0.00 µg/g

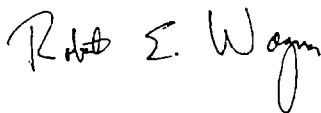
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Northeast Analytical, Inc

Robert E. Wagner Laboratory Director



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NORTHEAST ANALYTICAL

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2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SD-004 NEA ID: AE02802
MATRIX: SEDIMENT DATE SAMPLED: 04/26/2001 TIME: 13.00
DATE RECEIVED: 04/28/2001 TIME: 11 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 138	µg/g	5/12/01	
Aroclor 1221	ND	0 138	µg/g	5/12/01	
Aroclor 1232	ND	0 138	µg/g	5/12/01	
Aroclor 1242	0 303	0 138	µg/g	5/12/01	AD, DF
Aroclor 1248	ND	0 138	µg/g	5/12/01	
Aroclor 1254	0 765	0 138	µg/g	5/12/01	AF
Aroclor 1260	ND	0 138	µg/g	5/12/01	

Total PCB Amount > Reporting Limit 1 07 µg/g

AD-Aroclor 1242 is being reported as the best Aroclor match The sample exhibits an altered PCB pattern

DF-The Aroclor pattern exhibited by this sample has a diminished front end pattern compared to an Aroclor standard

AF-Aroclor 1254 is being reported as the best Aroclor match The sample exhibits an altered PCB pattern

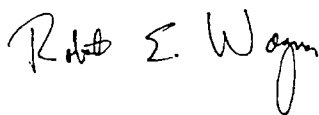
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Northeast Analytical, Inc

Robert E Wagner, Laboratory Director



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NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SD-005 NEA ID: AE02803
MATRIX: SEDIMENT DATE SAMPLED: 04/26/2001 TIME: 13 20
DATE RECEIVED: 04/28/2001 TIME: 11 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0771	µg/g	5/12/01	
Aroclor 1221	ND	0.0771	µg/g	5/12/01	
Aroclor 1232	ND	0.0771	µg/g	5/12/01	
Aroclor 1242	0.136	0.0771	µg/g	5/12/01	AD, DF
Aroclor 1248	ND	0.0771	µg/g	5/12/01	
Aroclor 1254	0.231	0.0771	µg/g	5/12/01	AF
Aroclor 1260	ND	0.0771	µg/g	5/12/01	
Total PCB Amount > Reporting Limit	0.367		µg/g		

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

DF-The Aroclor pattern exhibited by this sample has a diminished front end pattern compared to an Aroclor standard.

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

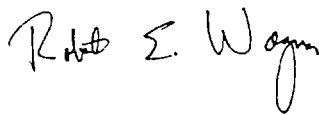
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Robert E. Wagner, Laboratory Director



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(518) 346-4592 • FAX (518) 381-6055

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SD-006 NEA ID: AE02804
MATRIX: SEDIMENT DATE SAMPLED: 04/26/2001 TIME: 13 45
DATE RECEIVED: 04/28/2001 TIME: 11 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0854	µg/g	5/12/01	
Aroclor 1221	ND	0.0854	µg/g	5/12/01	
Aroclor 1232	ND	0.0854	µg/g	5/12/01	
Aroclor 1242	0.335	0.0854	µg/g	5/12/01	AD, EF
Aroclor 1248	ND	0.0854	µg/g	5/12/01	
Aroclor 1254	0.371	0.0854	µg/g	5/12/01	AF
Aroclor 1260	ND	0.0854	µg/g	5/12/01	

Total PCB Amount > Reporting Limit 0.706 µg/g

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

EF-The Aroclor 1242 pattern exhibited by this sample has an enhanced front end pattern compared to an Aroclor 1242 standard.

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

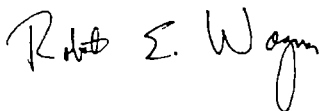
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Robert E. Wagner, Laboratory Director



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NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SD0061 NEA ID: AE02807
MATRIX: SEDIMENT DATE SAMPLED: 04/26/2001 TIME: N/A
DATE RECEIVED: 04/28/2001 TIME: 11 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0751	µg/g	5/12/01	
Aroclor 1221	ND	0.0751	µg/g	5/12/01	
Aroclor 1232	ND	0.0751	µg/g	5/12/01	
Aroclor 1242	0.213	0.0751	µg/g	5/12/01	AD, EF
Aroclor 1248	ND	0.0751	µg/g	5/12/01	
Aroclor 1254	0.248	0.0751	µg/g	5/12/01	AF
Aroclor 1260	ND	0.0751	µg/g	5/12/01	
Total PCB Amount > Reporting Limit	0.461		µg/g		

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

EF-The Aroclor 1242 pattern exhibited by this sample has an enhanced front end pattern compared to an Aroclor 1242 standard.

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

Note: There were several non-target peaks.

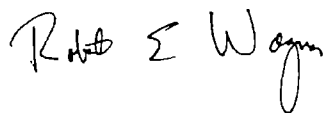
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE

Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director



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NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SD-007 NEA ID: AE02788
MATRIX: SEDIMENT DATE SAMPLED: 04/25/2001 TIME: 13:00
DATE RECEIVED: 04/27/2001 TIME: 10:30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0591	µg/g	5/11/01	
Aroclor 1221	ND	0.0591	µg/g	5/11/01	
Aroclor 1232	ND	0.0591	µg/g	5/11/01	
Aroclor 1242	0.151	0.0591	µg/g	5/11/01	AD, EF
Aroclor 1248	ND	0.0591	µg/g	5/11/01	
Aroclor 1254	0.0673	0.0591	µg/g	5/11/01	AF
Aroclor 1260	ND	0.0591	µg/g	5/11/01	

Total PCB Amount > Reporting Limit 0.218 µg/g

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

EF-The Aroclor 1242 pattern exhibited by this sample has an enhanced front end pattern compared to an Aroclor 1242 standard.

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

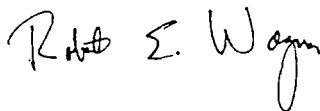
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE

Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director



NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308
(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SD-008 NEA ID: AE02789
MATRIX: SEDIMENT DATE SAMPLED: 04/25/2001 TIME: 13 15
DATE RECEIVED: 04/27/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0727	µg/g	5/11/01	
Aroclor 1221	ND	0.0727	µg/g	5/11/01	
Aroclor 1232	ND	0.0727	µg/g	5/11/01	
Aroclor 1242	0.251	0.0727	µg/g	5/11/01	AD, EF
Aroclor 1248	ND	0.0727	µg/g	5/11/01	
Aroclor 1254	0.221	0.0727	µg/g	5/11/01	AF
Aroclor 1260	ND	0.0727	µg/g	5/11/01	

Total PCB Amount > Reporting Limit 0.472 µg/g

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

EF-The Aroclor 1242 pattern exhibited by this sample has an enhanced front end pattern compared to an Aroclor 1242 standard.

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

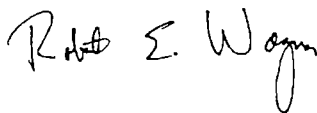
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director



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NORTHEAST ANALYTICAL



ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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7106 CROSSROADS BLVD.

SUITE 228

BRENTWOOD, TN 37027

CONTACT: JIM ORR

CUSTOMER ID: SD-009 NEA ID: AE02790
MATRIX: SEDIMENT DATE SAMPLED: 04/25/2001 TIME: 13 30
DATE RECEIVED: 04/27/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.142	µg/g	5/15/01	
Aroclor 1221	ND	0.142	µg/g	5/15/01	
Aroclor 1232	ND	0.142	µg/g	5/15/01	
Aroclor 1242	1.19	0.142	µg/g	5/15/01	AD
Aroclor 1248	ND	0.142	µg/g	5/15/01	
Aroclor 1254	1.38	0.142	µg/g	5/15/01	AF
Aroclor 1260	ND	0.142	µg/g	5/15/01	
Total PCB Amount > Reporting Limit	2.57		µg/g		

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director

NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SD0091 NEA ID: AE02791
MATRIX: SEDIMENT DATE SAMPLED: 04/25/2001 TIME: N/A
DATE RECEIVED: 04/27/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.134	µg/g	5/11/01	
Aroclor 1221	ND	0.134	µg/g	5/11/01	
Aroclor 1232	ND	0.134	µg/g	5/11/01	
Aroclor 1242	1.05	0.134	µg/g	5/11/01	AD
Aroclor 1248	ND	0.134	µg/g	5/11/01	
Aroclor 1254	1.31	0.134	µg/g	5/11/01	AF
Aroclor 1260	ND	0.134	µg/g	5/11/01	

Total PCB Amount > Reporting Limit 2.36 µg/g

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

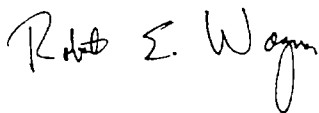
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director



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NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SD010 NEA ID: AE02792
MATRIX : SEDIMENT DATE SAMPLED: 04/25/2001 TIME: 13 50
DATE RECEIVED: 04/27/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.126	µg/g	5/11/01	
Aroclor 1221	ND	0.126	µg/g	5/11/01	
Aroclor 1232	ND	0.126	µg/g	5/11/01	
Aroclor 1242	1.37	0.126	µg/g	5/11/01	AD, EF
Aroclor 1248	ND	0.126	µg/g	5/11/01	
Aroclor 1254	1.23	0.126	µg/g	5/11/01	AF
Aroclor 1260	ND	0.126	µg/g	5/11/01	

Total PCB Amount > Reporting Limit 2.60 µg/g

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

EF-The Aroclor 1242 pattern exhibited by this sample has an enhanced front end pattern compared to an Aroclor 1242 standard.

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

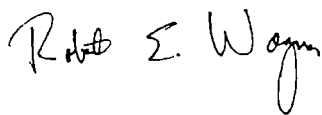
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE

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Robert E. Wagner, Laboratory Director



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NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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05/16/2001

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SD011 NEA ID: AE02793
MATRIX: SEDIMENT DATE SAMPLED: 04/25/2001 TIME: 14 10
DATE RECEIVED: 04/27/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.146	µg/g	5/11/01	
Aroclor 1221	ND	0.146	µg/g	5/11/01	
Aroclor 1232	ND	0.146	µg/g	5/11/01	
Aroclor 1242	1.17	0.146	µg/g	5/11/01	AD
Aroclor 1248	ND	0.146	µg/g	5/11/01	
Aroclor 1254	1.15	0.146	µg/g	5/11/01	AF
Aroclor 1260	ND	0.146	µg/g	5/11/01	
Total PCB Amount > Reporting Limit	2.32		µg/g		

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

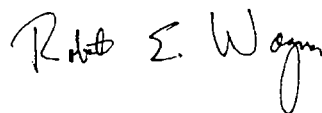
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director



NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS

05/16/2001

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SD012 NEA ID: AE02794
MATRIX : SEDIMENT DATE SAMPLED: 04/25/2001 TIME: 14:20
DATE RECEIVED: 04/27/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.212	µg/g	5/11/01	
Aroclor 1221	ND	0.212	µg/g	5/11/01	
Aroclor 1232	ND	0.212	µg/g	5/11/01	
Aroclor 1242	4.27	0.212	µg/g	5/11/01	AD
Aroclor 1248	ND	0.212	µg/g	5/11/01	
Aroclor 1254	1.46	0.212	µg/g	5/11/01	AF
Aroclor 1260	ND	0.212	µg/g	5/11/01	

Total PCB Amount > Reporting Limit 5.73 µg/g

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

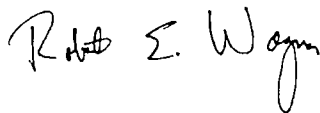
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE

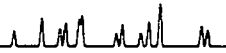
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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SD013 NEA ID: AE02795
MATRIX : SEDIMENT DATE SAMPLED: 04/25/2001 TIME: 14 35
DATE RECEIVED: 04/27/2001 TIME: 10.30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.148	µg/g	5/11/01	
Aroclor 1221	ND	0.148	µg/g	5/11/01	
Aroclor 1232	ND	0.148	µg/g	5/11/01	
Aroclor 1242	2.83	0.148	µg/g	5/11/01	AD, EF
Aroclor 1248	ND	0.148	µg/g	5/11/01	
Aroclor 1254	1.15	0.148	µg/g	5/11/01	AF
Aroclor 1260	ND	0.148	µg/g	5/11/01	

Total PCB Amount > Reporting Limit 3.98 µg/g

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

EF-The Aroclor 1242 pattern exhibited by this sample has an enhanced front end pattern compared to an Aroclor 1242 standard.

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

Note: There were several non-target peaks.

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Robert E. Wagner, Laboratory Director

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2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SD014 NEA ID: AE02796
MATRIX: SEDIMENT DATE SAMPLED: 04/25/2001 TIME: 15 00
DATE RECEIVED: 04/27/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.119	µg/g	5/11/01	
Aroclor 1221	ND	0.119	µg/g	5/11/01	
Aroclor 1232	ND	0.119	µg/g	5/11/01	
Aroclor 1242	0.507	0.119	µg/g	5/11/01	AD
Aroclor 1248	ND	0.119	µg/g	5/11/01	
Aroclor 1254	0.307	0.119	µg/g	5/11/01	AF
Aroclor 1260	ND	0.119	µg/g	5/11/01	

Total PCB Amount > Reporting Limit 0.814 µg/g

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

Note: There were several non-target peaks.

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Robert E. Wagner, Laboratory Director

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2190 Technology Drive, Schenectady, NY 12308
(518) 346-4592 • FAX (518) 381-6055

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SD015 NEA ID: AE02797
MATRIX: SEDIMENT DATE SAMPLED: 04/25/2001 TIME: 15 30
DATE RECEIVED: 04/27/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J. ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 118	µg/g	5/11/01	
Aroclor 1221	ND	0 118	µg/g	5/11/01	
Aroclor 1232	ND	0 118	µg/g	5/11/01	
Aroclor 1242	0 204	0 118	µg/g	5/11/01	AD
Aroclor 1248	ND	0 118	µg/g	5/11/01	
Aroclor 1254	0 241	0 118	µg/g	5/11/01	AF
Aroclor 1260	ND	0 118	µg/g	5/11/01	

Total PCB Amount > Reporting Limit 0 445 µg/g

AD-Aroclor 1242 is being reported as the best Aroclor match The sample exhibits an altered PCB pattern

AF-Aroclor 1254 is being reported as the best Aroclor match The sample exhibits an altered PCB pattern

Note There were several non-target peaks

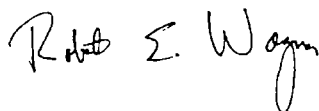
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner, Laboratory Director



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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SD106 NEA ID: AE02805
MATRIX: SEDIMENT DATE SAMPLED: 04/26/2001 TIME: 15 45
DATE RECEIVED: 04/28/2001 TIME: 11 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.153	µg/g	5/12/01	
Aroclor 1221	ND	0.153	µg/g	5/12/01	
Aroclor 1232	ND	0.153	µg/g	5/12/01	
Aroclor 1242	0.181	0.153	µg/g	5/12/01	AD
Aroclor 1248	ND	0.153	µg/g	5/12/01	
Aroclor 1254	0.306	0.153	µg/g	5/12/01	AF
Aroclor 1260	ND	0.153	µg/g	5/12/01	

Total PCB Amount > Reporting Limit 0.487 µg/g

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

Note: There were several non-target peaks.

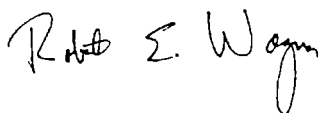
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Robert E. Wagner, Laboratory Director



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ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SD532 NEA ID: AE02806
MATRIX : SEDIMENT DATE SAMPLED: 04/26/2001 TIME: 16 45
DATE RECEIVED: 04/28/2001 TIME: 11 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.191	µg/g	5/12/01	
Aroclor 1221	ND	0.191	µg/g	5/12/01	
Aroclor 1232	ND	0.191	µg/g	5/12/01	
Aroclor 1242	ND	0.191	µg/g	5/12/01	
Aroclor 1248	ND	0.191	µg/g	5/12/01	
Aroclor 1254	ND	0.191	µg/g	5/12/01	
Aroclor 1260	ND	0.191	µg/g	5/12/01	

Total PCB Amount > Reporting Limit 0.00 µg/g

Note: There were several non-target peaks

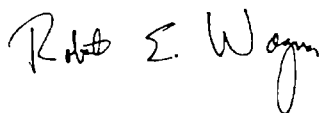
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner, Laboratory Director



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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SD-535 NEA ID: AE02899
MATRIX : SEDIMENT DATE SAMPLED: 04/27/2001 TIME: N/A
DATE RECEIVED: 05/01/2001 TIME: 10 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 101	µg/g	5/15/01	
Aroclor 1221	ND	0 101	µg/g	5/15/01	
Aroclor 1232	ND	0 101	µg/g	5/15/01	
Aroclor 1242	0 172	0 101	µg/g	5/15/01	AD, DF
Aroclor 1248	ND	0 101	µg/g	5/15/01	
Aroclor 1254	0 226	0 101	µg/g	5/15/01	AF
Aroclor 1260	ND	0 101	µg/g	5/15/01	

Total PCB Amount > Reporting Limit 0.398 µg/g

AD-Aroclor 1242 is being reported as the best Aroclor match The sample exhibits an altered PCB pattern

DF-The Aroclor pattern exhibited by this sample has a diminished front end pattern compared to an Aroclor standard

AF-Aroclor 1254 is being reported as the best Aroclor match The sample exhibits an altered PCB pattern

Note There were several non-target peaks

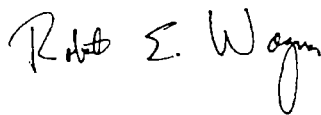
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Northeast Analytical, Inc

Robert E. Wagner, Laboratory Director



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2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SD-641 NEA ID: AE02900
MATRIX: SEDIMENT DATE SAMPLED: 04/27/2001 TIME: N/A
DATE RECEIVED: 05/01/2001 TIME: 10 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 142	µg/g	5/15/01	
Aroclor 1221	ND	0 142	µg/g	5/15/01	
Aroclor 1232	ND	0 142	µg/g	5/15/01	
Aroclor 1242	0 157	0 142	µg/g	5/15/01	AD, DF
Aroclor 1248	ND	0 142	µg/g	5/15/01	
Aroclor 1254	0 179	0 142	µg/g	5/15/01	AF
Aroclor 1260	ND	0 142	µg/g	5/15/01	

Total PCB Amount > Reporting Limit 0 336 µg/g

AD-Aroclor 1242 is being reported as the best Aroclor match The sample exhibits an altered PCB pattern

DF-The Aroclor pattern exhibited by this sample has a diminished front end pattern compared to an Aroclor standard

AF-Aroclor 1254 is being reported as the best Aroclor match The sample exhibits an altered PCB pattern

Note There were several non-target peaks

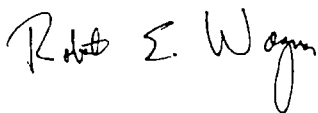
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner, Laboratory Director



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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SD-642 NEA ID: AE02901
MATRIX : SEDIMENT DATE SAMPLED: 04/27/2001 TIME: N/A
DATE RECEIVED: 05/01/2001 TIME: 10 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0949	µg/g	5/15/01
Aroclor 1221	ND	0.0949	µg/g	5/15/01
Aroclor 1232	ND	0.0949	µg/g	5/15/01
Aroclor 1242	ND	0.0949	µg/g	5/15/01
Aroclor 1248	ND	0.0949	µg/g	5/15/01
Aroclor 1254	ND	0.0949	µg/g	5/15/01
Aroclor 1260	ND	0.0949	µg/g	5/15/01

Total PCB Amount > Reporting Limit 0.00 µg/g

Note: There were few non-target peaks

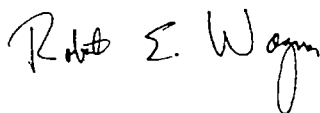
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner, Laboratory Director



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Appendix B
Corbicula Analytical Data Sheets

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: C-0 NEA ID: AE04036
MATRIX : TISSUE DATE SAMPLED: 05/29/2001 TIME: N/A
DATE RECEIVED: 05/30/2001 TIME: 10 20 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 0555	µg/g	6/12/01
Aroclor 1221	ND	0 0555	µg/g	6/12/01
Aroclor 1232	ND	0 0555	µg/g	6/12/01
Aroclor 1242	ND	0 0555	µg/g	6/12/01
Aroclor 1248	ND	0 0555	µg/g	6/12/01
Aroclor 1254	ND	0 0555	µg/g	6/12/01
Aroclor 1260	ND	0 0555	µg/g	6/12/01

Total PCB Amount > Reporting Limit 0 00 µg/g

Note There were few non-target peaks

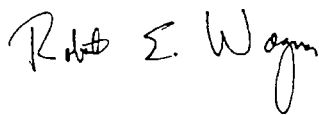
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc

Robert E Wagner, Laboratory Director



NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS

06/18/2001

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: C-1 NEA ID: AE04037
MATRIX: TISSUE DATE SAMPLED: 05/29/2001 TIME: N/A
DATE RECEIVED: 05/30/2001 TIME: 10 20 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 107	µg/g	6/12/01	
Aroclor 1221	ND	0 107	µg/g	6/12/01	
Aroclor 1232	ND	0 107	µg/g	6/12/01	
Aroclor 1242	1 73	0 107	µg/g	6/12/01	AD
Aroclor 1248	ND	0 107	µg/g	6/12/01	
Aroclor 1254	0 498	0.107	µg/g	6/12/01	AF
Aroclor 1260	ND	0 107	µg/g	6/12/01	
Total PCB Amount > Reporting Limit	2 23		µg/g		

AD-Aroclor 1242 is being reported as the best Aroclor match The sample exhibits an altered PCB pattern

AF-Aroclor 1254 is being reported as the best Aroclor match The sample exhibits an altered PCB pattern

Note There were few non-target peaks

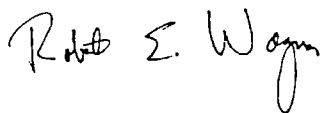
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner, Laboratory Director



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ENVIRONMENTAL LAB SERVICES

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: C-1 DUP NEA ID: AE04129
MATRIX : TISSUE DATE SAMPLED: 05/29/2001 TIME: N/A
DATE RECEIVED: 05/30/2001 TIME: 10:20 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.108	µg/g	6/12/01	
Aroclor 1221	ND	0.108	µg/g	6/12/01	
Aroclor 1232	ND	0.108	µg/g	6/12/01	
Aroclor 1242	1.86	0.108	µg/g	6/12/01	AD
Aroclor 1248	ND	0.108	µg/g	6/12/01	
Aroclor 1254	0.540	0.108	µg/g	6/12/01	AF
Aroclor 1260	ND	0.108	µg/g	6/12/01	
Total PCB Amount > Reporting Limit	2.40		µg/g		

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

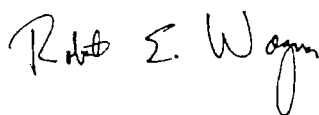
AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

Note: There were few non-target peaks.

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Robert E. Wagner, Laboratory Director

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: C-2 NEA ID: AE04038
MATRIX : TISSUE DATE SAMPLED: 05/29/2001 TIME: N/A
DATE RECEIVED: 05/30/2001 TIME: 10 20 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0508	µg/g	6/12/01
Aroclor 1221	ND	0.0508	µg/g	6/12/01
Aroclor 1232	ND	0.0508	µg/g	6/12/01
Aroclor 1242	ND	0.0508	µg/g	6/12/01
Aroclor 1248	ND	0.0508	µg/g	6/12/01
Aroclor 1254	ND	0.0508	µg/g	6/12/01
Aroclor 1260	ND	0.0508	µg/g	6/12/01

Total PCB Amount > Reporting Limit 0.00 µg/g

Note: There were few non-target peaks

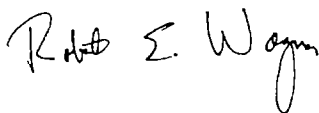
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: C-3 NEA ID: AE04039
MATRIX: TISSUE DATE SAMPLED: 05/29/2001 TIME: N/A
DATE RECEIVED: 05/30/2001 TIME: 10 20 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0533	µg/g	6/12/01	
Aroclor 1221	ND	0.0533	µg/g	6/12/01	
Aroclor 1232	ND	0.0533	µg/g	6/12/01	
Aroclor 1242	0.478	0.0533	µg/g	6/12/01	AD
Aroclor 1248	ND	0.0533	µg/g	6/12/01	
Aroclor 1254	0.362	0.0533	µg/g	6/12/01	AF
Aroclor 1260	ND	0.0533	µg/g	6/12/01	

Total PCB Amount > Reporting Limit 0.840 µg/g

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

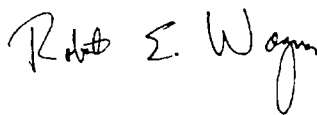
AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

Note: There were few non-target peaks.

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: C-4 NEA ID: AE04040
MATRIX : TISSUE DATE SAMPLED: 05/29/2001 TIME: N/A
DATE RECEIVED: 05/30/2001 TIME: 10 20 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0524	µg/g	6/12/01
Aroclor 1221	ND	0.0524	µg/g	6/12/01
Aroclor 1232	ND	0.0524	µg/g	6/12/01
Aroclor 1242	ND	0.0524	µg/g	6/12/01
Aroclor 1248	ND	0.0524	µg/g	6/12/01
Aroclor 1254	ND	0.0524	µg/g	6/12/01
Aroclor 1260	ND	0.0524	µg/g	6/12/01

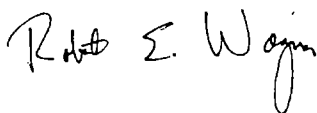
Total PCB Amount > Reporting Limit 0.00 µg/g

Note: There were few non-target peaks

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner, Laboratory Director

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: C-5 NEA ID: AE04041
MATRIX: TISSUE DATE SAMPLED: 05/29/2001 TIME: N/A
DATE RECEIVED: 05/30/2001 TIME: 10 20 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0533	µg/g	6/12/01	
Aroclor 1221	ND	0.0533	µg/g	6/12/01	
Aroclor 1232	ND	0.0533	µg/g	6/12/01	
Aroclor 1242	0.147	0.0533	µg/g	6/12/01	AD
Aroclor 1248	ND	0.0533	µg/g	6/12/01	
Aroclor 1254	0.303	0.0533	µg/g	6/12/01	AF
Aroclor 1260	ND	0.0533	µg/g	6/12/01	

Total PCB Amount > Reporting Limit 0.450 µg/g

AD-Aroclor 1242 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

Note: There were few non-target peaks.

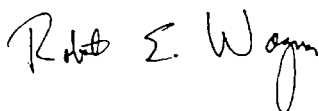
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Robert E. Wagner, Laboratory Director



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2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: C-6 NEA ID: AE04042
MATRIX : TISSUE DATE SAMPLED: 05/29/2001 TIME: N/A
DATE RECEIVED: 05/30/2001 TIME: 10 20 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 104	µg/g	6/12/01	
Aroclor 1221	ND	0 104	µg/g	6/12/01	
Aroclor 1232	ND	0 104	µg/g	6/12/01	
Aroclor 1242	0 746	0 104	µg/g	6/12/01	AD
Aroclor 1248	ND	0 104	µg/g	6/12/01	
Aroclor 1254	0 743	0 104	µg/g	6/12/01	AF
Aroclor 1260	ND	0 104	µg/g	6/12/01	

Total PCB Amount > Reporting Limit 1 49 µg/g

AD-Aroclor 1242 is being reported as the best Aroclor match The sample exhibits an altered PCB pattern

AF-Aroclor 1254 is being reported as the best Aroclor match The sample exhibits an altered PCB pattern

Note There were few non-target peaks

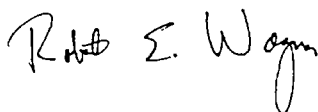
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E Wagner, Laboratory Director



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Appendix C
Fish Analytical Data Sheets

NORTHEAST ANALYTICAL

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CERTIFICATE OF ANALYSIS 05/02/2001

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV107-1 NEA ID: AE02297
MATRIX: FISH DATE SAMPLED: 04/17/2001 TIME: N/A
DATE RECEIVED: 04/19/2001 TIME: 11 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.273	µg/g	4/24/01	
Aroclor 1221	ND	0.273	µg/g	4/24/01	
Aroclor 1232	ND	0.273	µg/g	4/24/01	
Aroclor 1242	1.50	0.273	µg/g	4/24/01	PD
Aroclor 1248	ND	0.273	µg/g	4/24/01	
Aroclor 1254	4.08	0.273	µg/g	4/24/01	
Aroclor 1260	0.582	0.273	µg/g	4/24/01	

Total PCB Amount > Reporting Limit 6.16 µg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE

Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director

NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308
(518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 05/02/2001

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV107-2 NEA ID: AE02298
MATRIX: FISH DATE SAMPLED: 04/17/2001 TIME: N/A
DATE RECEIVED: 04/19/2001 TIME: 11 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.161	µg/g	4/24/01	
Aroclor 1221	ND	0.161	µg/g	4/24/01	
Aroclor 1232	ND	0.161	µg/g	4/24/01	
Aroclor 1242	0.279	0.161	µg/g	4/24/01	PD
Aroclor 1248	ND	0.161	µg/g	4/24/01	
Aroclor 1254	2.70	0.161	µg/g	4/24/01	
Aroclor 1260	0.390	0.161	µg/g	4/24/01	
Total PCB Amount > Reporting Limit	3.37		µg/g		

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

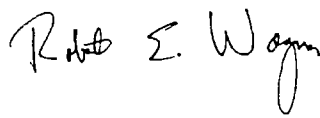
Note: There were few non-target peaks.

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

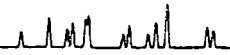
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Robert E. Wagner, Laboratory Director



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2190 Technology Drive, Schenectady, NY 12308

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV107-3 NEA ID: AE02299
MATRIX: FISH DATE SAMPLED: 04/17/2001 TIME: N/A
DATE RECEIVED: 04/19/2001 TIME: 11 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.214	µg/g	4/24/01	
Aroclor 1221	ND	0.214	µg/g	4/24/01	
Aroclor 1232	ND	0.214	µg/g	4/24/01	
Aroclor 1242	0.378	0.214	µg/g	4/24/01	PD
Aroclor 1248	ND	0.214	µg/g	4/24/01	
Aroclor 1254	4.32	0.214	µg/g	4/24/01	
Aroclor 1260	0.789	0.214	µg/g	4/24/01	

Total PCB Amount > Reporting Limit 5.49 µg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE:

Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director

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2190 Technology Drive, Schenectady, NY 12308

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV107-4 NEA ID: AE02300
MATRIX: FISH DATE SAMPLED: 04/17/2001 TIME: N/A
DATE RECEIVED: 04/19/2001 TIME: 11 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 108	µg/g	4/24/01	
Aroclor 1221	ND	0 108	µg/g	4/24/01	
Aroclor 1232	ND	0 108	µg/g	4/24/01	
Aroclor 1242	0 143	0 108	µg/g	4/24/01	PD
Aroclor 1248	ND	0 108	µg/g	4/24/01	
Aroclor 1254	1 64	0 108	µg/g	4/24/01	
Aroclor 1260	0 368	0 108	µg/g	4/24/01	

Total PCB Amount > Reporting Limit 2 15 µg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

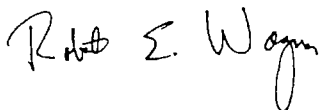
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Robert E. Wagner, Laboratory Director



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7106 CROSSROADS BLVD.

SUITE 228

BRENTWOOD, TN 37027

CONTACT: JIM ORR

CUSTOMER ID: SV107-5 NEA ID: AE02301
MATRIX: FISH DATE SAMPLED: 04/17/2001 TIME: N/A
DATE RECEIVED: 04/19/2001 TIME: 11 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 328	µg/g	4/24/01	
Aroclor 1221	ND	0 328	µg/g	4/24/01	
Aroclor 1232	ND	0 328	µg/g	4/24/01	
Aroclor 1242	1 03	0 328	µg/g	4/24/01	PD
Aroclor 1248	ND	0 328	µg/g	4/24/01	
Aroclor 1254	6 92	0 328	µg/g	4/24/01	
Aroclor 1260	1 08	0 328	µg/g	4/24/01	

Total PCB Amount > Reporting Limit 9 03 µg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

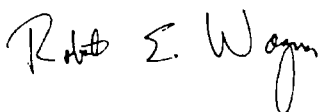
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E Wagner, Laboratory Director



NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS

05/02/2001

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV107-6 NEA ID: AE02302
MATRIX : FISH DATE SAMPLED: 04/17/2001 TIME: N/A
DATE RECEIVED: 04/19/2001 TIME: 11 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.212	µg/g	4/24/01
Aroclor 1221	ND	0.212	µg/g	4/24/01
Aroclor 1232	ND	0.212	µg/g	4/24/01
Aroclor 1242	ND	0.212	µg/g	4/24/01
Aroclor 1248	ND	0.212	µg/g	4/24/01
Aroclor 1254	3.20	0.212	µg/g	4/24/01
Aroclor 1260	0.805	0.212	µg/g	4/24/01
Total PCB Amount > Reporting Limit	4.00		µg/g	

Note: There were few non-target peaks

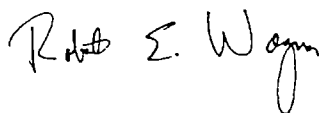
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner, Laboratory Director



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NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV107-6 DUP NEA ID: AE02333
MATRIX: FISH DATE SAMPLED: 04/17/2001 TIME: N/A
DATE RECEIVED: 04/19/2001 TIME: 11.00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.220	µg/g	4/25/01
Aroclor 1221	ND	0.220	µg/g	4/25/01
Aroclor 1232	ND	0.220	µg/g	4/25/01
Aroclor 1242	ND	0.220	µg/g	4/25/01
Aroclor 1248	ND	0.220	µg/g	4/25/01
Aroclor 1254	3.14	0.220	µg/g	4/25/01
Aroclor 1260	0.748	0.220	µg/g	4/25/01
Total PCB Amount > Reporting Limit	3.89		µg/g	

Note: There were few non-target peaks

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner, Laboratory Director

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2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV107-7 NEA ID: AE02303
MATRIX: FISH DATE SAMPLED: 04/17/2001 TIME: N/A
DATE RECEIVED: 04/19/2001 TIME: 11.00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.109	µg/g	4/24/01	
Aroclor 1221	ND	0.109	µg/g	4/24/01	
Aroclor 1232	ND	0.109	µg/g	4/24/01	
Aroclor 1242	0.223	0.109	µg/g	4/24/01	PD
Aroclor 1248	ND	0.109	µg/g	4/24/01	
Aroclor 1254	1.44	0.109	µg/g	4/24/01	
Aroclor 1260	0.267	0.109	µg/g	4/24/01	

Total PCB Amount > Reporting Limit 1.93 µg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

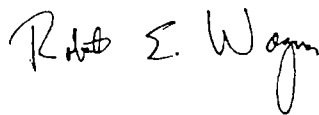
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Robert E. Wagner, Laboratory Director



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(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV107-8 NEA ID: AE02304
MATRIX: FISH DATE SAMPLED: 04/17/2001 TIME: N/A
DATE RECEIVED: 04/19/2001 TIME: 11 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 0545	µg/g	6/11/01	
Aroclor 1221	ND	0 0545	µg/g	6/11/01	
Aroclor 1232	ND	0 0545	µg/g	6/11/01	
Aroclor 1242	0 0578	0 0545	µg/g	6/11/01	PD
Aroclor 1248	ND	0 0545	µg/g	6/11/01	
Aroclor 1254	0 803	0 0545	µg/g	6/11/01	
Aroclor 1260	0 268	0 0545	µg/g	6/11/01	

Total PCB Amount > Reporting Limit 1 13 µg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

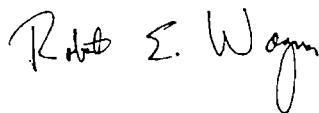
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Robert E. Wagner, Laboratory Director



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2190 Technology Drive, Schenectady, NY 12308

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV107-9 NEA ID: AE02484
MATRIX: FISH DATE SAMPLED: 04/17/2001 TIME: N/A
DATE RECEIVED: 04/19/2001 TIME: 11 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 166	µg/g	4/26/01	
Aroclor 1221	ND	0 166	µg/g	4/26/01	
Aroclor 1232	ND	0 166	µg/g	4/26/01	
Aroclor 1242	0 666	0 166	µg/g	4/26/01	PD
Aroclor 1248	ND	0 166	µg/g	4/26/01	
Aroclor 1254	2 12	0 166	µg/g	4/26/01	
Aroclor 1260	0 208	0 166	µg/g	4/26/01	
Total PCB Amount > Reporting Limit	2 99		µg/g		

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

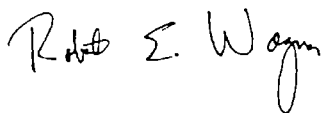
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Robert E. Wagner, Laboratory Director



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2190 Technology Drive, Schenectady, NY 12308

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ERM- SOUTHEAST, INC.

7106 CROSSROADS BLVD.

SUITE 228

BRENTWOOD, TN 37027

CONTACT: JIM ORR

CUSTOMER ID: SV107-10 NEA ID: AE02415
MATRIX: FISH DATE SAMPLED: 04/18/2001 TIME: N/A
DATE RECEIVED: 04/20/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 362	µg/g	4/26/01	
Aroclor 1221	ND	0 362	µg/g	4/26/01	
Aroclor 1232	ND	0 362	µg/g	4/26/01	
Aroclor 1242	0 708	0 362	µg/g	4/26/01	PD
Aroclor 1248	ND	0 362	µg/g	4/26/01	
Aroclor 1254	5 55	0 362	µg/g	4/26/01	
Aroclor 1260	1 82	0 362	µg/g	4/26/01	
Total PCB Amount > Reporting Limit	8 08		µg/g		

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

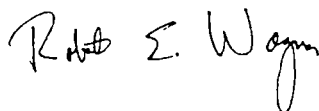
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner Laboratory Director



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NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV107-11 NEA ID: AE02416
MATRIX: FISH DATE SAMPLED: 04/18/2001 TIME: N/A
DATE RECEIVED: 04/20/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 108	µg/g	4/26/01	
Aroclor 1221	ND	0 108	µg/g	4/26/01	
Aroclor 1232	ND	0 108	µg/g	4/26/01	
Aroclor 1242	0 151	0 108	µg/g	4/26/01	PD
Aroclor 1248	ND	0 108	µg/g	4/26/01	
Aroclor 1254	2 02	0 108	µg/g	4/26/01	
Aroclor 1260	0 657	0 108	µg/g	4/26/01	
Total PCB Amount > Reporting Limit	2 83		µg/g		

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

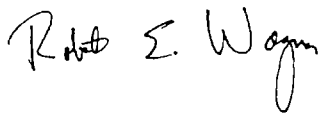
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Northeast Analytical Inc

Robert E. Wagner, Laboratory Director



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NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV107-12 NEA ID: AE02417
MATRIX: FISH DATE SAMPLED: 04/18/2001 TIME: N/A
DATE RECEIVED: 04/20/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.109	µg/g	4/26/01	
Aroclor 1221	ND	0.109	µg/g	4/26/01	
Aroclor 1232	ND	0.109	µg/g	4/26/01	
Aroclor 1242	0.320	0.109	µg/g	4/26/01	PD
Aroclor 1248	ND	0.109	µg/g	4/26/01	
Aroclor 1254	2.16	0.109	µg/g	4/26/01	
Aroclor 1260	0.534	0.109	µg/g	4/26/01	

Total PCB Amount > Reporting Limit 3.01 µg/g

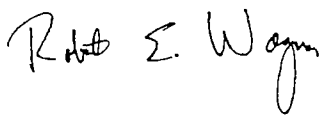
PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director

NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

NORTHEAST ANALYTICAL

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2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV107-13 NEA ID: AE02418
MATRIX: FISH DATE SAMPLED: 04/18/2001 TIME: N/A
DATE RECEIVED: 04/20/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.108	µg/g	4/29/01	
Aroclor 1221	ND	0.108	µg/g	4/29/01	
Aroclor 1232	ND	0.108	µg/g	4/29/01	
Aroclor 1242	0.110	0.108	µg/g	4/29/01	PD
Aroclor 1248	ND	0.108	µg/g	4/29/01	
Aroclor 1254	2.20	0.108	µg/g	4/29/01	
Aroclor 1260	0.511	0.108	µg/g	4/29/01	

Total PCB Amount > Reporting Limit 2.82 µg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

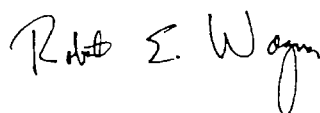
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Robert E. Wagner, Laboratory Director



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NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV107-13 DUP NEA ID: AE02443
MATRIX: FISH DATE SAMPLED: 04/18/2001 TIME: N/A
DATE RECEIVED: 04/20/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 109	µg/g	4/27/01	
Aroclor 1221	ND	0 109	µg/g	4/27/01	
Aroclor 1232	ND	0 109	µg/g	4/27/01	
Aroclor 1242	0 131	0 109	µg/g	4/27/01	PD
Aroclor 1248	ND	0 109	µg/g	4/27/01	
Aroclor 1254	2 28	0 109	µg/g	4/27/01	
Aroclor 1260	0 490	0 109	µg/g	4/27/01	

Total PCB Amount > Reporting Limit 2 90 µg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

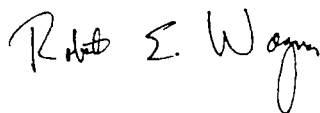
Note: There were few non-target peaks.

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Northeast Analytical, Inc.
Robert E. Wagner, Laboratory Director



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NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.

7106 CROSSROADS BLVD.

SUITE 228

BRENTWOOD, TN 37027

CONTACT: JIM ORR

CUSTOMER ID: SV107-14 NEA ID: AE02419
MATRIX: FISH DATE SAMPLED: 04/18/2001 TIME: N/A
DATE RECEIVED: 04/20/2001 TIME: 10:30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.546	µg/g	4/26/01	
Aroclor 1221	ND	0.546	µg/g	4/26/01	
Aroclor 1232	ND	0.546	µg/g	4/26/01	
Aroclor 1242	2.49	0.546	µg/g	4/26/01	PD
Aroclor 1248	ND	0.546	µg/g	4/26/01	
Aroclor 1254	9.18	0.546	µg/g	4/26/01	
Aroclor 1260	1.32	0.546	µg/g	4/26/01	

Total PCB Amount > Reporting Limit 13.0 µg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director

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NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV107-15 NEA ID: AE02420
MATRIX: FISH DATE SAMPLED: 04/18/2001 TIME: N/A
DATE RECEIVED: 04/20/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.271	µg/g	4/26/01	
Aroclor 1221	ND	0.271	µg/g	4/26/01	
Aroclor 1232	ND	0.271	µg/g	4/26/01	
Aroclor 1242	0.595	0.271	µg/g	4/26/01	PD
Aroclor 1248	ND	0.271	µg/g	4/26/01	
Aroclor 1254	4.38	0.271	µg/g	4/26/01	
Aroclor 1260	0.801	0.271	µg/g	4/26/01	
Total PCB Amount > Reporting Limit	5.78		µg/g		

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

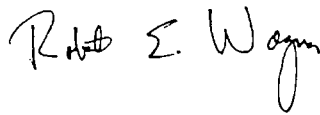
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director



NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

NORTHEAST ANALYTICAL



ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV107-16 NEA ID: AE02421
MATRIX: FISH DATE SAMPLED: 04/18/2001 TIME: N/A
DATE RECEIVED: 04/20/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.535	µg/g	4/26/01	
Aroclor 1221	ND	0.535	µg/g	4/26/01	
Aroclor 1232	ND	0.535	µg/g	4/26/01	
Aroclor 1242	1.58	0.535	µg/g	4/26/01	PD
Aroclor 1248	ND	0.535	µg/g	4/26/01	
Aroclor 1254	13.3	0.535	µg/g	4/26/01	
Aroclor 1260	2.25	0.535	µg/g	4/26/01	
Total PCB Amount > Reporting Limit	17.1		µg/g		

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director

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ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV107-17 NEA ID: AE02422
MATRIX: FISH DATE SAMPLED: 04/18/2001 TIME: N/A
DATE RECEIVED: 04/20/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 0526	µg/g	4/26/01	
Aroclor 1221	ND	0 0526	µg/g	4/26/01	
Aroclor 1232	ND	0 0526	µg/g	4/26/01	
Aroclor 1242	0 0833	0 0526	µg/g	4/26/01	PD
Aroclor 1248	ND	0 0526	µg/g	4/26/01	
Aroclor 1254	0 474	0 0526	µg/g	4/26/01	
Aroclor 1260	0 0536	0 0526	µg/g	4/26/01	
Total PCB Amount > Reporting Limit	0 611	µg/g			

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

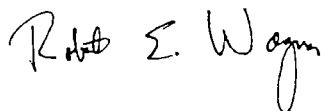
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV107-18 NEA ID: AE02446
MATRIX: FISH DATE SAMPLED: 04/19/2001 TIME: N/A
DATE RECEIVED: 04/23/2001 TIME: 8 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 440	µg/g	4/27/01	
Aroclor 1221	ND	0 440	µg/g	4/27/01	
Aroclor 1232	ND	0 440	µg/g	4/27/01	
Aroclor 1242	0 662	0 440	µg/g	4/27/01	PD
Aroclor 1248	ND	0 440	µg/g	4/27/01	
Aroclor 1254	6 96	0 440	µg/g	4/27/01	
Aroclor 1260	0.917	0 440	µg/g	4/27/01	

Total PCB Amount > Reporting Limit 8 54 µg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

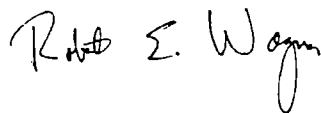
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E Wagner, Laboratory Director



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NORTHEAST ANALYTICAL



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ERM- SOUTHEAST, INC.

7106 CROSSROADS BLVD.

SUITE 228

BRENTWOOD, TN 37027

CONTACT: JIM ORR

CUSTOMER ID: SV107-19 NEA ID: AE02447
MATRIX: FISH DATE SAMPLED: 04/19/2001 TIME: N/A
DATE RECEIVED: 04/23/2001 TIME: 8 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.206	µg/g	6/11/01	
Aroclor 1221	ND	0.206	µg/g	6/11/01	
Aroclor 1232	ND	0.206	µg/g	6/11/01	
Aroclor 1242	0.511	0.206	µg/g	6/11/01	PD
Aroclor 1248	ND	0.206	µg/g	6/11/01	
Aroclor 1254	4.53	0.206	µg/g	6/11/01	
Aroclor 1260	0.858	0.206	µg/g	6/11/01	

Total PCB Amount > Reporting Limit 5.90 µg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director

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ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308
(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV107-20 NEA ID: AE02821
MATRIX: FISH DATE SAMPLED: 04/25/2001 TIME: N/A
DATE RECEIVED: 04/27/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.211	µg/g	5/13/01	
Aroclor 1221	ND	0.211	µg/g	5/13/01	
Aroclor 1232	ND	0.211	µg/g	5/13/01	
Aroclor 1242	0.879	0.211	µg/g	5/13/01	PD
Aroclor 1248	ND	0.211	µg/g	5/13/01	
Aroclor 1254	5.15	0.211	µg/g	5/13/01	
Aroclor 1260	0.782	0.211	µg/g	5/13/01	

Total PCB Amount > Reporting Limit 6.81 µg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

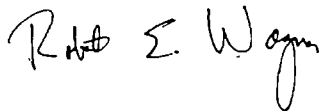
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Robert E. Wagner, Laboratory Director



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2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV107-21 NEA ID: AE02808
MATRIX: FISH DATE SAMPLED: 04/26/2001 TIME: N/A
DATE RECEIVED: 04/28/2001 TIME: 11 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.161	µg/g	5/12/01	
Aroclor 1221	ND	0.161	µg/g	5/12/01	
Aroclor 1232	ND	0.161	µg/g	5/12/01	
Aroclor 1242	0.820	0.161	µg/g	5/12/01	PD
Aroclor 1248	ND	0.161	µg/g	5/12/01	
Aroclor 1254	5.15	0.161	µg/g	5/12/01	
Aroclor 1260	0.897	0.161	µg/g	5/12/01	
Total PCB Amount > Reporting Limit	6.87		µg/g		

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

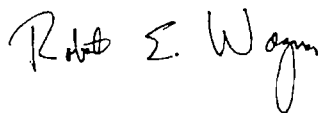
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Robert E. Wagner, Laboratory Director



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(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV107-22 NEA ID: AE02809
MATRIX: FISH DATE SAMPLED: 04/26/2001 TIME: N/A
DATE RECEIVED: 04/28/2001 TIME: 11 30 PROJECT: FISH STUDY
SAMPLED BY: J. ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.156	µg/g	5/12/01	
Aroclor 1221	ND	0.156	µg/g	5/12/01	
Aroclor 1232	ND	0.156	µg/g	5/12/01	
Aroclor 1242	0.605	0.156	µg/g	5/12/01	PD
Aroclor 1248	ND	0.156	µg/g	5/12/01	
Aroclor 1254	4.30	0.156	µg/g	5/12/01	
Aroclor 1260	0.738	0.156	µg/g	5/12/01	

Total PCB Amount > Reporting Limit 5.64 µg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

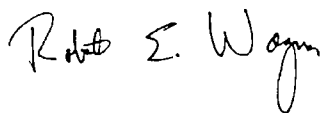
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Robert E. Wagner, Laboratory Director



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2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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06/18/2001

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV107-23 NEA ID: AE03536
MATRIX: FISH DATE SAMPLED: 05/08/2001 TIME: N/A
DATE RECEIVED: 05/11/2001 TIME: 10 15 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 109	µg/g	6/9/01	
Aroclor 1221	ND	0 109	µg/g	6/9/01	
Aroclor 1232	ND	0 109	µg/g	6/9/01	
Aroclor 1242	0 507	0 109	µg/g	6/9/01	PD
Aroclor 1248	ND	0 109	µg/g	6/9/01	
Aroclor 1254	3.00	0 109	µg/g	6/9/01	
Aroclor 1260	0 471	0 109	µg/g	6/9/01	
Total PCB Amount > Reporting Limit	3 98		µg/g		

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

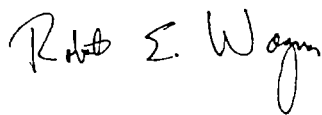
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director



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NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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06/18/2001

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV107-24 NEA ID: AE03537
MATRIX: FISH DATE SAMPLED: 05/08/2001 TIME: N/A
DATE RECEIVED: 05/11/2001 TIME: 10 15 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.218	µg/g	6/9/01	
Aroclor 1221	ND	0.218	µg/g	6/9/01	
Aroclor 1232	ND	0.218	µg/g	6/9/01	
Aroclor 1242	1.11	0.218	µg/g	6/9/01	PD
Aroclor 1248	ND	0.218	µg/g	6/9/01	
Aroclor 1254	5.92	0.218	µg/g	6/9/01	
Aroclor 1260	0.974	0.218	µg/g	6/9/01	
Total PCB Amount > Reporting Limit	8.00		µg/g		

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

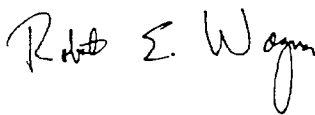
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director



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NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

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(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV107-25 NEA ID: AE03538
MATRIX: FISH DATE SAMPLED: 05/08/2001 TIME: N/A
DATE RECEIVED: 05/11/2001 TIME: 10 15 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 109	µg/g	6/9/01	
Aroclor 1221	ND	0 109	µg/g	6/9/01	
Aroclor 1232	ND	0 109	µg/g	6/9/01	
Aroclor 1242	0 453	0 109	µg/g	6/9/01	PD
Aroclor 1248	ND	0 109	µg/g	6/9/01	
Aroclor 1254	3 02	0 109	µg/g	6/9/01	
Aroclor 1260	0 434	0 109	µg/g	6/9/01	
Total PCB Amount > Reporting Limit	3 91		µg/g		

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

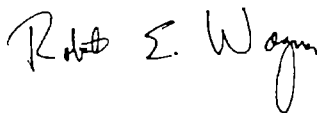
Note: There were few non-target peaks.

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Northeast Analytical, Inc.
Robert E. Wagner, Laboratory Director



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NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV107-26 NEA ID: AE03539
MATRIX: FISH DATE SAMPLED: 05/08/2001 TIME: N/A
DATE RECEIVED: 05/11/2001 TIME: 10 15 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.204	µg/g	6/9/01	
Aroclor 1221	ND	0.204	µg/g	6/9/01	
Aroclor 1232	ND	0.204	µg/g	6/9/01	
Aroclor 1242	0.930	0.204	µg/g	6/9/01	PD
Aroclor 1248	ND	0.204	µg/g	6/9/01	
Aroclor 1254	5.24	0.204	µg/g	6/9/01	
Aroclor 1260	0.825	0.204	µg/g	6/9/01	

Total PCB Amount > Reporting Limit 7.00 µg/g

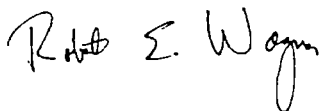
PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director

NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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06/19/2001

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV106-1 NEA ID: AE02305
MATRIX: FISH DATE SAMPLED: 04/17/2001 TIME: N/A
DATE RECEIVED: 04/19/2001 TIME: 11 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.103	µg/g	6/11/01	
Aroclor 1221	ND	0.103	µg/g	6/11/01	
Aroclor 1232	ND	0.103	µg/g	6/11/01	
Aroclor 1242	0.370	0.103	µg/g	6/11/01	PD
Aroclor 1248	ND	0.103	µg/g	6/11/01	
Aroclor 1254	2.31	0.103	µg/g	6/11/01	
Aroclor 1260	0.371	0.103	µg/g	6/11/01	

Total PCB Amount > Reporting Limit 3.05 µg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director

NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308
(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV106-2 NEA ID: AE02306
MATRIX: FISH DATE SAMPLED: 04/17/2001 TIME: N/A
DATE RECEIVED: 04/19/2001 TIME: 11 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.162	µg/g	6/11/01	
Aroclor 1221	ND	0.162	µg/g	6/11/01	
Aroclor 1232	ND	0.162	µg/g	6/11/01	
Aroclor 1242	0.612	0.162	µg/g	6/11/01	PD
Aroclor 1248	ND	0.162	µg/g	6/11/01	
Aroclor 1254	3.42	0.162	µg/g	6/11/01	
Aroclor 1260	0.521	0.162	µg/g	6/11/01	

Total PCB Amount > Reporting Limit 4.55 µg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

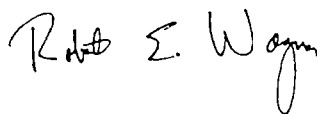
Note: There were few non-target peaks.

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Robert E. Wagner, Laboratory Director



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2190 Technology Drive, Schenectady, NY 12308
(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV106-3 NEA ID: AE02307
MATRIX: FISH DATE SAMPLED: 04/17/2001 TIME: N/A
DATE RECEIVED: 04/19/2001 TIME: 11 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 107	µg/g	4/24/01	
Aroclor 1221	ND	0 107	µg/g	4/24/01	
Aroclor 1232	ND	0 107	µg/g	4/24/01	
Aroclor 1242	0 387	0 107	µg/g	4/24/01	PD
Aroclor 1248	ND	0 107	µg/g	4/24/01	
Aroclor 1254	2.03	0 107	µg/g	4/24/01	
Aroclor 1260	0 319	0 107	µg/g	4/24/01	

Total PCB Amount > Reporting Limit 2 74 µg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

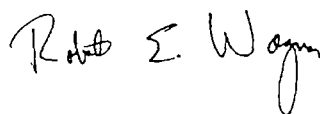
Note: There were few non-target peaks.

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Northeast Analytical, Inc.
Robert E. Wagner, Laboratory Director



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2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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7106 CROSSROADS BLVD.

SUITE 228

BRENTWOOD, TN 37027

CONTACT: JIM ORR

CUSTOMER ID: SV106-4 NEA ID: AE02308
MATRIX: FISH DATE SAMPLED: 04/17/2001 TIME: N/A
DATE RECEIVED: 04/19/2001 TIME: 11 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 210	µg/g	5/4/01
Aroclor 1221	ND	0 210	µg/g	5/4/01
Aroclor 1232	ND	0 210	µg/g	5/4/01
Aroclor 1242	ND	0 210	µg/g	5/4/01
Aroclor 1248	ND	0 210	µg/g	5/4/01
Aroclor 1254	3 41	0 210	µg/g	5/4/01
Aroclor 1260	0 728	0 210	µg/g	5/4/01

Total PCB Amount > Reporting Limit 4 14 µg/g

Note There were few non-target peaks

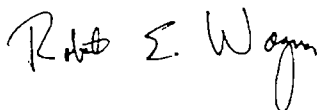
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Northeast Analytical, Inc

Robert E. Wagner, Laboratory Director



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NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

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(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV106-4 DUP NEA ID: AE02338
MATRIX: FISH DATE SAMPLED: 04/17/2001 TIME: N/A
DATE RECEIVED: 04/19/2001 TIME: 11 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 208	µg/g	5/4/01
Aroclor 1221	ND	0 208	µg/g	5/4/01
Aroclor 1232	ND	0 208	µg/g	5/4/01
Aroclor 1242	ND	0 208	µg/g	5/4/01
Aroclor 1248	ND	0 208	µg/g	5/4/01
Aroclor 1254	3 84	0 208	µg/g	5/4/01
Aroclor 1260	0 925	0 208	µg/g	5/4/01

Total PCB Amount > Reporting Limit 4 76 µg/g

Note There were few non-target peaks

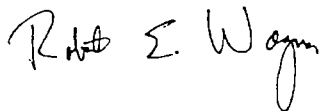
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E Wagner, Laboratory Director



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2190 Technology Drive, Schenectady, NY 12308

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV106-5 NEA ID: AE02309
MATRIX: FISH DATE SAMPLED: 04/17/2001 TIME: N/A
DATE RECEIVED: 04/19/2001 TIME: 11 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 163	µg/g	4/25/01	
Aroclor 1221	ND	0 163	µg/g	4/25/01	
Aroclor 1232	ND	0 163	µg/g	4/25/01	
Aroclor 1242	0 404	0 163	µg/g	4/25/01	PD
Aroclor 1248	ND	0 163	µg/g	4/25/01	
Aroclor 1254	2 94	0 163	µg/g	4/25/01	
Aroclor 1260	0 513	0 163	µg/g	4/25/01	

Total PCB Amount > Reporting Limit 3 86 µg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

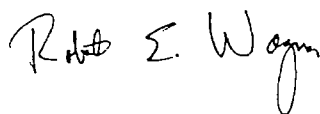
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director



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2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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05/02/2001

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV106-6 NEA ID: AE02310
MATRIX: FISH DATE SAMPLED: 04/17/2001 TIME: N/A
DATE RECEIVED: 04/19/2001 TIME: 11 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 111	µg/g	4/25/01
Aroclor 1221	ND	0 111	µg/g	4/25/01
Aroclor 1232	ND	0 111	µg/g	4/25/01
Aroclor 1242	0 249	0 111	µg/g	4/25/01
Aroclor 1248	ND	0 111	µg/g	4/25/01
Aroclor 1254	1 98	0 111	µg/g	4/25/01
Aroclor 1260	0 366	0 111	µg/g	4/25/01
Total PCB Amount > Reporting Limit	2 60	µg/g		

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Northeast Analytical, Inc

Robert E Wagner Laboratory Director

NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.

7106 CROSSROADS BLVD.

SUITE 228

BRENTWOOD, TN 37027

CONTACT: JIM ORR

CUSTOMER ID: SV106-7 NEA ID: AE02311
MATRIX: FISH DATE SAMPLED: 04/17/2001 TIME: N/A
DATE RECEIVED: 04/19/2001 TIME: 11 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.110	µg/g	4/25/01	
Aroclor 1221	ND	0.110	µg/g	4/25/01	
Aroclor 1232	ND	0.110	µg/g	4/25/01	
Aroclor 1242	0.143	0.110	µg/g	4/25/01	PD
Aroclor 1248	ND	0.110	µg/g	4/25/01	
Aroclor 1254	1.07	0.110	µg/g	4/25/01	
Aroclor 1260	0.154	0.110	µg/g	4/25/01	

Total PCB Amount > Reporting Limit 1.37 µg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

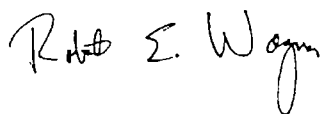
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director



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NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV106-8 NEA ID: AE02312
MATRIX: FISH DATE SAMPLED: 04/17/2001 TIME: N/A
DATE RECEIVED: 04/19/2001 TIME: 11 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.213	µg/g	4/25/01
Aroclor 1221	ND	0.213	µg/g	4/25/01
Aroclor 1232	ND	0.213	µg/g	4/25/01
Aroclor 1242	ND	0.213	µg/g	4/25/01
Aroclor 1248	ND	0.213	µg/g	4/25/01
Aroclor 1254	1.48	0.213	µg/g	4/25/01
Aroclor 1260	3.54	0.213	µg/g	4/25/01

Total PCB Amount > Reporting Limit 5.02 µg/g

Note: There were few non-target peaks

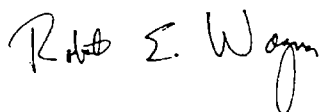
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner, Laboratory Director



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NORTHEAST ANALYTICAL

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2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV106-9 NEA ID: AE02313
MATRIX: FISH DATE SAMPLED: 04/17/2001 TIME: N/A
DATE RECEIVED: 04/19/2001 TIME: 11 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 108	µg/g	4/25/01	
Aroclor 1221	ND	0 108	µg/g	4/25/01	
Aroclor 1232	ND	0 108	µg/g	4/25/01	
Aroclor 1242	0 163	0 108	µg/g	4/25/01	PD
Aroclor 1248	ND	0 108	µg/g	4/25/01	
Aroclor 1254	1 10	0 108	µg/g	4/25/01	
Aroclor 1260	0 185	0 108	µg/g	4/25/01	

Total PCB Amount > Reporting Limit 1 45 µg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

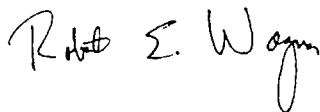
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV106-10 NEA ID: AE02314
MATRIX: FISH DATE SAMPLED: 04/17/2001 TIME: N/A
DATE RECEIVED: 04/19/2001 TIME: 11 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.110	µg/g	4/25/01	
Aroclor 1221	ND	0.110	µg/g	4/25/01	
Aroclor 1232	ND	0.110	µg/g	4/25/01	
Aroclor 1242	0.163	0.110	µg/g	4/25/01	PD
Aroclor 1248	ND	0.110	µg/g	4/25/01	
Aroclor 1254	1.37	0.110	µg/g	4/25/01	
Aroclor 1260	0.292	0.110	µg/g	4/25/01	

Total PCB Amount > Reporting Limit 1.83 µg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director

NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.

7106 CROSSROADS BLVD.

SUITE 228

BRENTWOOD, TN 37027

CONTACT: JIM ORR

CUSTOMER ID: SV106-11 NEA ID: AE02315
MATRIX: FISH DATE SAMPLED: 04/17/2001 TIME: N/A
DATE RECEIVED: 04/19/2001 TIME: 11 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 107	µg/g	4/25/01	
Aroclor 1221	ND	0 107	µg/g	4/25/01	
Aroclor 1232	ND	0 107	µg/g	4/25/01	
Aroclor 1242	0 177	0 107	µg/g	4/25/01	PD
Aroclor 1248	ND	0 107	µg/g	4/25/01	
Aroclor 1254	1 24	0 107	µg/g	4/25/01	
Aroclor 1260	0 208	0 107	µg/g	4/25/01	

Total PCB Amount > Reporting Limit 1 63 µg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

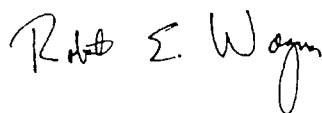
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Robert E. Wagner, Laboratory Director



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NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS

05/02/2001

ERM- SOUTHEAST, INC.

7106 CROSSROADS BLVD.

SUITE 228

BRENTWOOD, TN 37027

CONTACT: JIM ORR

CUSTOMER ID: SV106-12 NEA ID: AE02316
MATRIX: FISH DATE SAMPLED: 04/17/2001 TIME: N/A
DATE RECEIVED: 04/19/2001 TIME: 11 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0552	µg/g	4/25/01
Aroclor 1221	ND	0.0552	µg/g	4/25/01
Aroclor 1232	ND	0.0552	µg/g	4/25/01
Aroclor 1242	ND	0.0552	µg/g	4/25/01
Aroclor 1248	ND	0.0552	µg/g	4/25/01
Aroclor 1254	0.543	0.0552	µg/g	4/25/01
Aroclor 1260	0.0811	0.0552	µg/g	4/25/01

Total PCB Amount > Reporting Limit 0.624 µg/g

Note: There were few non-target peaks

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director

NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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05/02/2001

ERM- SOUTHEAST, INC.

7106 CROSSROADS BLVD.

SUITE 228

BRENTWOOD, TN 37027

CONTACT: JIM ORR

CUSTOMER ID: SV106-13 NEA ID: AE02317
MATRIX: FISH DATE SAMPLED: 04/17/2001 TIME: N/A
DATE RECEIVED: 04/19/2001 TIME: 11 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0552	µg/g	4/25/01
Aroclor 1221	ND	0.0552	µg/g	4/25/01
Aroclor 1232	ND	0.0552	µg/g	4/25/01
Aroclor 1242	ND	0.0552	µg/g	4/25/01
Aroclor 1248	ND	0.0552	µg/g	4/25/01
Aroclor 1254	0.577	0.0552	µg/g	4/25/01
Aroclor 1260	0.137	0.0552	µg/g	4/25/01

Total PCB Amount > Reporting Limit 0.714 µg/g

Note: There were few non-target peaks

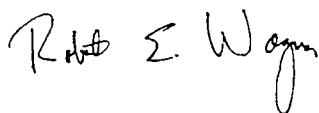
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner, Laboratory Director



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NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308
(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV106-14 NEA ID: AE02318
MATRIX: FISH DATE SAMPLED: 04/17/2001 TIME: N/A
DATE RECEIVED: 04/19/2001 TIME: 11 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 0530	µg/g	4/25/01
Aroclor 1221	ND	0 0530	µg/g	4/25/01
Aroclor 1232	ND	0 0530	µg/g	4/25/01
Aroclor 1242	ND	0 0530	µg/g	4/25/01
Aroclor 1248	ND	0 0530	µg/g	4/25/01
Aroclor 1254	0 981	0 0530	µg/g	4/25/01
Aroclor 1260	0 287	0 0530	µg/g	4/25/01

Total PCB Amount > Reporting Limit 1 27 µg/g

Note There were few non-target peaks

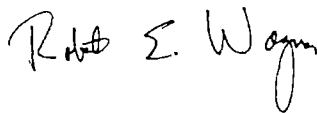
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Northeast Analytical, Inc

Robert E Wagner Laboratory Director



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NORTHEAST ANALYTICAL

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2190 Technology Drive, Schenectady, NY 12308
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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV106-15 NEA ID: AE02319
MATRIX: FISH DATE SAMPLED: 04/17/2001 TIME: N/A
DATE RECEIVED: 04/19/2001 TIME: 11 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0531	µg/g	4/25/01
Aroclor 1221	ND	0.0531	µg/g	4/25/01
Aroclor 1232	ND	0.0531	µg/g	4/25/01
Aroclor 1242	ND	0.0531	µg/g	4/25/01
Aroclor 1248	ND	0.0531	µg/g	4/25/01
Aroclor 1254	1.18	0.0531	µg/g	4/25/01
Aroclor 1260	0.258	0.0531	µg/g	4/25/01

Total PCB Amount > Reporting Limit 1.44 µg/g

Note: There were few non-target peaks

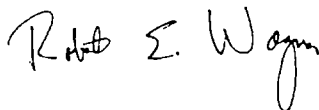
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner, Laboratory Director



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NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308
(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV106-16R NEA ID: AE02814
MATRIX: FISH DATE SAMPLED: 04/26/2001 TIME: N/A
DATE RECEIVED: 04/28/2001 TIME: 11 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0520	µg/g	5/12/01
Aroclor 1221	ND	0.0520	µg/g	5/12/01
Aroclor 1232	ND	0.0520	µg/g	5/12/01
Aroclor 1242	ND	0.0520	µg/g	5/12/01
Aroclor 1248	ND	0.0520	µg/g	5/12/01
Aroclor 1254	0.354	0.0520	µg/g	5/12/01
Aroclor 1260	0.114	0.0520	µg/g	5/12/01

Total PCB Amount > Reporting Limit 0.468 µg/g

Note: There were few non-target peaks

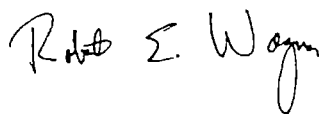
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director



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2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV106-18 NEA ID: AE02425
MATRIX: FISH DATE SAMPLED: 04/18/2001 TIME: N/A
DATE RECEIVED: 04/20/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0519	µg/g	6/11/01	
Aroclor 1221	ND	0.0519	µg/g	6/11/01	
Aroclor 1232	ND	0.0519	µg/g	6/11/01	
Aroclor 1242	0.0597	0.0519	µg/g	6/11/01	PD
Aroclor 1248	ND	0.0519	µg/g	6/11/01	
Aroclor 1254	0.931	0.0519	µg/g	6/11/01	
Aroclor 1260	0.221	0.0519	µg/g	6/11/01	

Total PCB Amount > Reporting Limit 1.21 µg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director

NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308
(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV106-19 NEA ID: AE02485
MATRIX: FISH DATE SAMPLED: 04/19/2001 TIME: N/A
DATE RECEIVED: 04/23/2001 TIME: 8 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 207	µg/g	5/1/01	
Aroclor 1221	ND	0 207	µg/g	5/1/01	
Aroclor 1232	ND	0 207	µg/g	5/1/01	
Aroclor 1242	0 668	0 207	µg/g	5/1/01	PD
Aroclor 1248	ND	0 207	µg/g	5/1/01	
Aroclor 1254	3 56	0 207	µg/g	5/1/01	
Aroclor 1260	0 548	0 207	µg/g	5/1/01	

Total PCB Amount > Reporting Limit 4 78 µg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

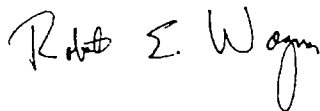
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE

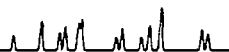
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2190 Technology Drive, Schenectady, NY 12308

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV106-20 NEA ID: AE02486
MATRIX: FISH DATE SAMPLED: 04/19/2001 TIME: N/A
DATE RECEIVED: 04/23/2001 TIME: 8 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.106	µg/g	6/10/01	
Aroclor 1221	ND	0.106	µg/g	6/10/01	
Aroclor 1232	ND	0.106	µg/g	6/10/01	
Aroclor 1242	0.501	0.106	µg/g	6/10/01	PD
Aroclor 1248	ND	0.106	µg/g	6/10/01	
Aroclor 1254	2.66	0.106	µg/g	6/10/01	
Aroclor 1260	0.430	0.106	µg/g	6/10/01	

Total PCB Amount > Reporting Limit 3.59 µg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE

Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director

NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

NORTHEAST ANALYTICAL

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2190 Technology Drive, Schenectady, NY 12308
(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV106-21 NEA ID: AE02822
MATRIX: FISH DATE SAMPLED: 04/25/2001 TIME: N/A
DATE RECEIVED: 04/27/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.305	µg/g	5/13/01	
Aroclor 1221	ND	0.305	µg/g	5/13/01	
Aroclor 1232	ND	0.305	µg/g	5/13/01	
Aroclor 1242	0.720	0.305	µg/g	5/13/01	PD
Aroclor 1248	ND	0.305	µg/g	5/13/01	
Aroclor 1254	5.74	0.305	µg/g	5/13/01	
Aroclor 1260	1.17	0.305	µg/g	5/13/01	

Total PCB Amount > Reporting Limit 7.63 µg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

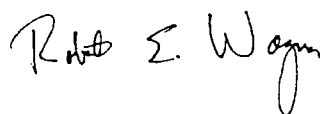
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE

Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director



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NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308
(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV106-22 NEA ID: AE02810
MATRIX: FISH DATE SAMPLED: 04/26/2001 TIME: N/A
DATE RECEIVED: 04/28/2001 TIME: 11 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 108	µg/g	5/12/01	
Aroclor 1221	ND	0 108	µg/g	5/12/01	
Aroclor 1232	ND	0 108	µg/g	5/12/01	
Aroclor 1242	0 449	0 108	µg/g	5/12/01	PD
Aroclor 1248	ND	0 108	µg/g	5/12/01	
Aroclor 1254	2 61	0 108	µg/g	5/12/01	
Aroclor 1260	0 410	0 108	µg/g	5/12/01	

Total PCB Amount > Reporting Limit 3 47 µg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

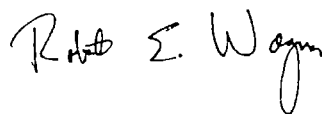
Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc
Robert E. Wagner, Laboratory Director



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NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.

7106 CROSSROADS BLVD.

SUITE 228

BRENTWOOD, TN 37027

CONTACT: JIM ORR

CUSTOMER ID: SV106-22 DUP NEA ID: AE02835
MATRIX: FISH DATE SAMPLED: 04/26/2001 TIME: N/A
DATE RECEIVED: 04/28/2001 TIME: 11 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 101	µg/g	5/12/01	
Aroclor 1221	ND	0 101	µg/g	5/12/01	
Aroclor 1232	ND	0 101	µg/g	5/12/01	
Aroclor 1242	0 475	0 101	µg/g	5/12/01	PD
Aroclor 1248	ND	0 101	µg/g	5/12/01	
Aroclor 1254	2 52	0 101	µg/g	5/12/01	
Aroclor 1260	0 402	0 101	µg/g	5/12/01	

Total PCB Amount > Reporting Limit 3 40 µg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc

Robert E. Wagner, Laboratory Director

NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308
(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV106-23 NEA ID: AE02811
MATRIX: FISH DATE SAMPLED: 04/26/2001 TIME: N/A
DATE RECEIVED: 04/28/2001 TIME: 11 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0545	µg/g	5/12/01	
Aroclor 1221	ND	0.0545	µg/g	5/12/01	
Aroclor 1232	ND	0.0545	µg/g	5/12/01	
Aroclor 1242	0.271	0.0545	µg/g	5/12/01	PD
Aroclor 1248	ND	0.0545	µg/g	5/12/01	
Aroclor 1254	1.54	0.0545	µg/g	5/12/01	
Aroclor 1260	0.220	0.0545	µg/g	5/12/01	
Total PCB Amount > Reporting Limit	2.03		µg/g		

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

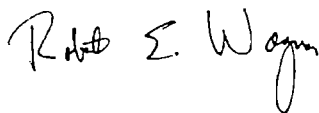
Note: There were few non-target peaks.

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE

Northeast Analytical, Inc.
Robert E. Wagner, Laboratory Director



NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.

7106 CROSSROADS BLVD.

SUITE 228

BRENTWOOD, TN 37027

CONTACT: JIM ORR

CUSTOMER ID: SV106-24 NEA ID: AE02812
MATRIX: FISH DATE SAMPLED: 04/26/2001 TIME: N/A
DATE RECEIVED: 04/28/2001 TIME: 11 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 107	µg/g	5/12/01	
Aroclor 1221	ND	0 107	µg/g	5/12/01	
Aroclor 1232	ND	0 107	µg/g	5/12/01	
Aroclor 1242	0 364	0 107	µg/g	5/12/01	PD
Aroclor 1248	ND	0 107	µg/g	5/12/01	
Aroclor 1254	2 33	0 107	µg/g	5/12/01	
Aroclor 1260	0 372	0 107	µg/g	5/12/01	

Total PCB Amount > Reporting Limit 3 07 µg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

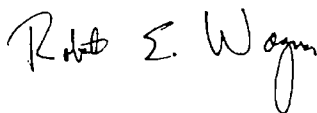
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Robert E. Wagner, Laboratory Director



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NORTHEAST ANALYTICAL



ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308
(518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 05/16/2001

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV106-25 NEA ID: AE02813
MATRIX: FISH DATE SAMPLED: 04/26/2001 TIME: N/A
DATE RECEIVED: 04/28/2001 TIME: 11 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0533	µg/g	5/12/01	
Aroclor 1221	ND	0.0533	µg/g	5/12/01	
Aroclor 1232	ND	0.0533	µg/g	5/12/01	
Aroclor 1242	0.246	0.0533	µg/g	5/12/01	PD
Aroclor 1248	ND	0.0533	µg/g	5/12/01	
Aroclor 1254	1.54	0.0533	µg/g	5/12/01	
Aroclor 1260	0.242	0.0533	µg/g	5/12/01	

Total PCB Amount > Reporting Limit 2.03 µg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director

NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

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2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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05/02/2001

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV532-1 NEA ID: AE02320
MATRIX: FISH DATE SAMPLED: 04/17/2001 TIME: N/A
DATE RECEIVED: 04/19/2001 TIME: 11 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 0513	µg/g	4/25/01	
Aroclor 1221	ND	0 0513	µg/g	4/25/01	
Aroclor 1232	ND	0 0513	µg/g	4/25/01	
Aroclor 1242	ND	0 0513	µg/g	4/25/01	
Aroclor 1248	ND	0 0513	µg/g	4/25/01	
Aroclor 1254	0 306	0 0513	µg/g	4/25/01	
Aroclor 1260	0 0627	0 0513	µg/g	4/25/01	
Total PCB Amount > Reporting Limit	0 369		µg/g		

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E Wagner, Laboratory Director

NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV532-2 NEA ID: AE02321
MATRIX: FISH DATE SAMPLED: 04/17/2001 TIME: N/A
DATE RECEIVED: 04/19/2001 TIME: 11 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 0550	µg/g	4/25/01
Aroclor 1221	ND	0 0550	µg/g	4/25/01
Aroclor 1232	ND	0 0550	µg/g	4/25/01
Aroclor 1242	ND	0 0550	µg/g	4/25/01
Aroclor 1248	ND	0 0550	µg/g	4/25/01
Aroclor 1254	0 226	0 0550	µg/g	4/25/01
Aroclor 1260	ND	0 0550	µg/g	4/25/01
Total PCB Amount > Reporting Limit	0 226	µg/g		

Note There were few non-target peaks

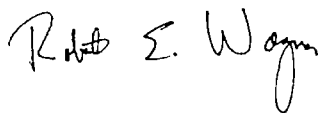
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E Wagner Laboratory Director



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NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV532-3 NEA ID: AE02322
MATRIX: FISH DATE SAMPLED: 04/17/2001 TIME: N/A
DATE RECEIVED: 04/19/2001 TIME: 11 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0541	µg/g	4/27/01	
Aroclor 1221	ND	0.0541	µg/g	4/27/01	
Aroclor 1232	ND	0.0541	µg/g	4/27/01	
Aroclor 1242	0.115	0.0541	µg/g	4/27/01	PD
Aroclor 1248	ND	0.0541	µg/g	4/27/01	
Aroclor 1254	0.722	0.0541	µg/g	4/27/01	
Aroclor 1260	0.101	0.0541	µg/g	4/27/01	

Total PCB Amount > Reporting Limit 0.938 µg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

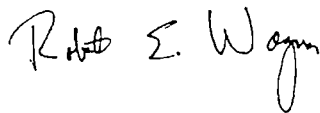
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Robert E. Wagner, Laboratory Director



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2190 Technology Drive, Schenectady, NY 12308
(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV532-4 NEA ID: AE02323
MATRIX: FISH DATE SAMPLED: 04/17/2001 TIME: N/A
DATE RECEIVED: 04/19/2001 TIME: 11 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 0524	µg/g	5/4/01
Aroclor 1221	ND	0 0524	µg/g	5/4/01
Aroclor 1232	ND	0 0524	µg/g	5/4/01
Aroclor 1242	ND	0 0524	µg/g	5/4/01
Aroclor 1248	ND	0 0524	µg/g	5/4/01
Aroclor 1254	0 159	0 0524	µg/g	5/4/01
Aroclor 1260	ND	0 0524	µg/g	5/4/01

Total PCB Amount > Reporting Limit 0 159 µg/g

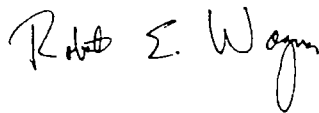
Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E Wagner, Laboratory Director



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2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV532-4 DUP NEA ID: AE02339
MATRIX: FISH DATE SAMPLED: 04/17/2001 TIME: N/A
DATE RECEIVED: 04/19/2001 TIME: 11 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0546	µg/g	5/4/01
Aroclor 1221	ND	0.0546	µg/g	5/4/01
Aroclor 1232	ND	0.0546	µg/g	5/4/01
Aroclor 1242	ND	0.0546	µg/g	5/4/01
Aroclor 1248	ND	0.0546	µg/g	5/4/01
Aroclor 1254	0.163	0.0546	µg/g	5/4/01
Aroclor 1260	ND	0.0546	µg/g	5/4/01
Total PCB Amount > Reporting Limit	0.163		µg/g	

Note: There were few non-target peaks

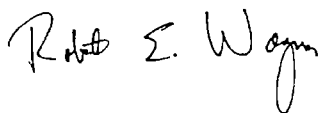
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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05/02/2001

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV532-5 NEA ID: AE02324
MATRIX: FISH DATE SAMPLED: 04/17/2001 TIME: N/A
DATE RECEIVED: 04/19/2001 TIME: 11 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.103	µg/g	4/25/01	
Aroclor 1221	ND	0.103	µg/g	4/25/01	
Aroclor 1232	ND	0.103	µg/g	4/25/01	
Aroclor 1242	ND	0.103	µg/g	4/25/01	
Aroclor 1248	ND	0.103	µg/g	4/25/01	
Aroclor 1254	1.05	0.103	µg/g	4/25/01	
Aroclor 1260	0.185	0.103	µg/g	4/25/01	
Total PCB Amount > Reporting Limit	1.24		µg/g		

Note: There were few non-target peaks

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner, Laboratory Director

NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

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ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV532-6 NEA ID: AE02325
MATRIX: FISH DATE SAMPLED: 04/17/2001 TIME: N/A
DATE RECEIVED: 04/19/2001 TIME: 11 00 PROJECT: FISH STUDY
SAMPLED BY: J. ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0506	µg/g	4/25/01
Aroclor 1221	ND	0.0506	µg/g	4/25/01
Aroclor 1232	ND	0.0506	µg/g	4/25/01
Aroclor 1242	ND	0.0506	µg/g	4/25/01
Aroclor 1248	ND	0.0506	µg/g	4/25/01
Aroclor 1254	0.183	0.0506	µg/g	4/25/01
Aroclor 1260	ND	0.0506	µg/g	4/25/01

Total PCB Amount > Reporting Limit 0.183 µg/g

Note: There were few non-target peaks

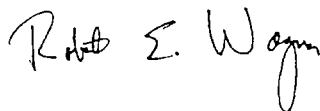
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Northeast Analytical, Inc

Robert E. Wagner Laboratory Director



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2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV532-7 NEA ID: AE02326
MATRIX: FISH DATE SAMPLED: 04/17/2001 TIME: N/A
DATE RECEIVED: 04/19/2001 TIME: 11 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 0518	µg/g	4/25/01	
Aroclor 1221	ND	0 0518	µg/g	4/25/01	
Aroclor 1232	ND	0 0518	µg/g	4/25/01	
Aroclor 1242	ND	0 0518	µg/g	4/25/01	
Aroclor 1248	ND	0 0518	µg/g	4/25/01	
Aroclor 1254	0 239	0 0518	µg/g	4/25/01	
Aroclor 1260	0 0696	0 0518	µg/g	4/25/01	
Total PCB Amount > Reporting Limit	0 309		µg/g		

Note There were few non-target peaks

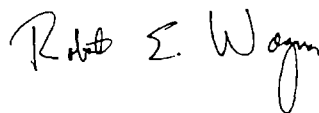
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Northeast Analytical, Inc

Robert E. Wagner, Laboratory Director



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NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308
(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV532-8 NEA ID: AE02327
MATRIX: FISH DATE SAMPLED: 04/17/2001 TIME: N/A
DATE RECEIVED: 04/19/2001 TIME: 11 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 0513	µg/g	5/4/01	
Aroclor 1221	ND	0 0513	µg/g	5/4/01	
Aroclor 1232	ND	0 0513	µg/g	5/4/01	
Aroclor 1242	ND	0 0513	µg/g	5/4/01	
Aroclor 1248	ND	0 0513	µg/g	5/4/01	
Aroclor 1254	0 812	0 0513	µg/g	5/4/01	
Aroclor 1260	0 174	0 0513	µg/g	5/4/01	

Total PCB Amount > Reporting Limit 0 986 µg/g

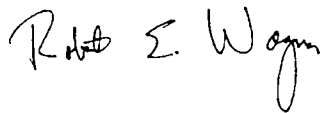
Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Northeast Analytical, Inc
Robert E. Wagner, Laboratory Director



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NORTHEAST ANALYTICAL

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2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV532-8 DUP NEA ID: AE02340
MATRIX: FISH DATE SAMPLED: 04/17/2001 TIME: N/A
DATE RECEIVED: 04/19/2001 TIME: 11 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 0538	µg/g	5/4/01
Aroclor 1221	ND	0 0538	µg/g	5/4/01
Aroclor 1232	ND	0 0538	µg/g	5/4/01
Aroclor 1242	ND	0 0538	µg/g	5/4/01
Aroclor 1248	ND	0 0538	µg/g	5/4/01
Aroclor 1254	1 38	0 0538	µg/g	5/4/01
Aroclor 1260	0 297	0 0538	µg/g	5/4/01
Total PCB Amount > Reporting Limit	1 68		µg/g	

Note There were few non-target peaks

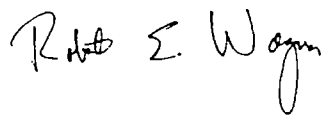
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Northeast Analytical, Inc

Robert E Wagner, Laboratory Director



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NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV532-9 NEA ID: AE02328
MATRIX: FISH DATE SAMPLED: 04/17/2001 TIME: N/A
DATE RECEIVED: 04/19/2001 TIME: 11 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0506	µg/g	4/25/01
Aroclor 1221	ND	0.0506	µg/g	4/25/01
Aroclor 1232	ND	0.0506	µg/g	4/25/01
Aroclor 1242	ND	0.0506	µg/g	4/25/01
Aroclor 1248	ND	0.0506	µg/g	4/25/01
Aroclor 1254	0.646	0.0506	µg/g	4/25/01
Aroclor 1260	0.119	0.0506	µg/g	4/25/01

Total PCB Amount > Reporting Limit 0.765 µg/g

Note: There were few non-target peaks

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director

NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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05/02/2001

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV532-10 NEA ID: AE02329
MATRIX: FISH DATE SAMPLED: 04/17/2001 TIME: N/A
DATE RECEIVED: 04/19/2001 TIME: 11 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 0553	µg/g	4/25/01
Aroclor 1221	ND	0 0553	µg/g	4/25/01
Aroclor 1232	ND	0 0553	µg/g	4/25/01
Aroclor 1242	ND	0 0553	µg/g	4/25/01
Aroclor 1248	ND	0 0553	µg/g	4/25/01
Aroclor 1254	0 628	0 0553	µg/g	4/25/01
Aroclor 1260	0 124	0 0553	µg/g	4/25/01

Total PCB Amount > Reporting Limit 0 752 µg/g

Note There were few non-target peaks

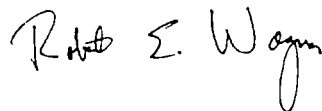
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical Inc

Robert E Wagner, Laboratory Director



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NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV532-11 NEA ID: AE02330
MATRIX: FISH DATE SAMPLED: 04/17/2001 TIME: N/A
DATE RECEIVED: 04/19/2001 TIME: 11 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0521	µg/g	4/25/01
Aroclor 1221	ND	0.0521	µg/g	4/25/01
Aroclor 1232	ND	0.0521	µg/g	4/25/01
Aroclor 1242	ND	0.0521	µg/g	4/25/01
Aroclor 1248	ND	0.0521	µg/g	4/25/01
Aroclor 1254	0.691	0.0521	µg/g	4/25/01
Aroclor 1260	0.115	0.0521	µg/g	4/25/01

Total PCB Amount > Reporting Limit 0.806 µg/g

Note: There were few non-target peaks

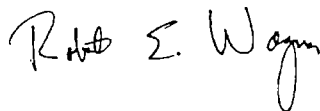
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner, Laboratory Director



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2190 Technology Drive, Schenectady, NY 12308

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV532-12 NEA ID: AE02331
MATRIX: FISH DATE SAMPLED: 04/17/2001 TIME: N/A
DATE RECEIVED: 04/19/2001 TIME: 11 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0531	µg/g	4/25/01	
Aroclor 1221	ND	0.0531	µg/g	4/25/01	
Aroclor 1232	ND	0.0531	µg/g	4/25/01	
Aroclor 1242	ND	0.0531	µg/g	4/25/01	
Aroclor 1248	ND	0.0531	µg/g	4/25/01	
Aroclor 1254	0.550	0.0531	µg/g	4/25/01	
Aroclor 1260	ND	0.0531	µg/g	4/25/01	
Total PCB Amount > Reporting Limit	0.550		µg/g		

Note: There were few non-target peaks

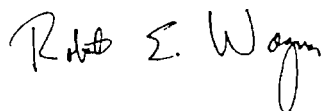
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner, Laboratory Director



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2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV532-13 NEA ID: AE02332
MATRIX: FISH DATE SAMPLED: 04/17/2001 TIME: N/A
DATE RECEIVED: 04/19/2001 TIME: 11 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 0512	µg/g	4/26/01
Aroclor 1221	ND	0 0512	µg/g	4/26/01
Aroclor 1232	ND	0 0512	µg/g	4/26/01
Aroclor 1242	ND	0 0512	µg/g	4/26/01
Aroclor 1248	ND	0 0512	µg/g	4/26/01
Aroclor 1254	0 479	0 0512	µg/g	4/26/01
Aroclor 1260	0 0739	0 0512	µg/g	4/26/01
Total PCB Amount > Reporting Limit	0 553	µg/g		

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV532-14 NEA ID: AE02426
MATRIX: FISH DATE SAMPLED: 04/18/2001 TIME: N/A
DATE RECEIVED: 04/20/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.217	µg/g	4/26/01	
Aroclor 1221	ND	0.217	µg/g	4/26/01	
Aroclor 1232	ND	0.217	µg/g	4/26/01	
Aroclor 1242	0.594	0.217	µg/g	4/26/01	PD
Aroclor 1248	ND	0.217	µg/g	4/26/01	
Aroclor 1254	3.25	0.217	µg/g	4/26/01	
Aroclor 1260	0.425	0.217	µg/g	4/26/01	
Total PCB Amount > Reporting Limit	4.27		µg/g		

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

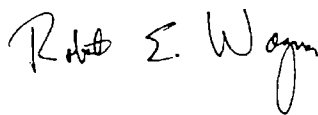
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV532-14 DUP NEA ID: AE02444
MATRIX: FISH DATE SAMPLED: 04/18/2001 TIME: N/A
DATE RECEIVED: 04/20/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.210	µg/g	4/27/01	
Aroclor 1221	ND	0.210	µg/g	4/27/01	
Aroclor 1232	ND	0.210	µg/g	4/27/01	
Aroclor 1242	0.719	0.210	µg/g	4/27/01	PD
Aroclor 1248	ND	0.210	µg/g	4/27/01	
Aroclor 1254	3.64	0.210	µg/g	4/27/01	
Aroclor 1260	0.517	0.210	µg/g	4/27/01	

Total PCB Amount > Reporting Limit 4.88 µg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

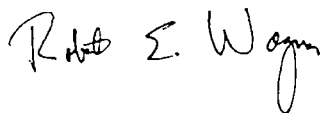
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Robert E. Wagner, Laboratory Director



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2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV532-15 NEA ID: AE02427
MATRIX: FISH DATE SAMPLED: 04/18/2001 TIME: N/A
DATE RECEIVED: 04/20/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.216	µg/g	4/26/01	
Aroclor 1221	ND	0.216	µg/g	4/26/01	
Aroclor 1232	ND	0.216	µg/g	4/26/01	
Aroclor 1242	0.612	0.216	µg/g	4/26/01	PD
Aroclor 1248	ND	0.216	µg/g	4/26/01	
Aroclor 1254	3.26	0.216	µg/g	4/26/01	
Aroclor 1260	0.478	0.216	µg/g	4/26/01	
Total PCB Amount > Reporting Limit	4.35		µg/g		

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

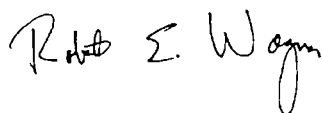
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Robert E. Wagner, Laboratory Director



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2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV532-16 NEA ID: AE02428
MATRIX: FISH DATE SAMPLED: 04/18/2001 TIME: N/A
DATE RECEIVED: 04/20/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.163	µg/g	4/26/01	
Aroclor 1221	ND	0.163	µg/g	4/26/01	
Aroclor 1232	ND	0.163	µg/g	4/26/01	
Aroclor 1242	0.540	0.163	µg/g	4/26/01	PD
Aroclor 1248	ND	0.163	µg/g	4/26/01	
Aroclor 1254	2.48	0.163	µg/g	4/26/01	
Aroclor 1260	0.315	0.163	µg/g	4/26/01	

Total PCB Amount > Reporting Limit 3.34 µg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

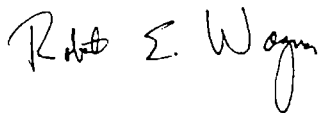
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director



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ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV532-17 NEA ID: AE02429
MATRIX : FISH DATE SAMPLED: 04/18/2001 TIME: N/A
DATE RECEIVED: 04/20/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.110	µg/g	4/26/01	
Aroclor 1221	ND	0.110	µg/g	4/26/01	
Aroclor 1232	ND	0.110	µg/g	4/26/01	
Aroclor 1242	0.366	0.110	µg/g	4/26/01	PD
Aroclor 1248	ND	0.110	µg/g	4/26/01	
Aroclor 1254	1.91	0.110	µg/g	4/26/01	
Aroclor 1260	0.260	0.110	µg/g	4/26/01	
Total PCB Amount > Reporting Limit	2.54		µg/g		

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

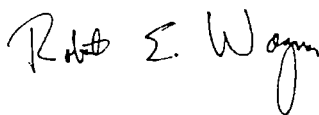
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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7106 CROSSROADS BLVD.

SUITE 228

BRENTWOOD, TN 37027

CONTACT: JIM ORR

CUSTOMER ID: SV532-18 NEA ID: AE02430
MATRIX: FISH DATE SAMPLED: 04/18/2001 TIME: N/A
DATE RECEIVED: 04/20/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 105	µg/g	4/27/01	
Aroclor 1221	ND	0 105	µg/g	4/27/01	
Aroclor 1232	ND	0 105	µg/g	4/27/01	
Aroclor 1242	0 283	0 105	µg/g	4/27/01	PD
Aroclor 1248	ND	0 105	µg/g	4/27/01	
Aroclor 1254	1 56	0 105	µg/g	4/27/01	
Aroclor 1260	0 220	0 105	µg/g	4/27/01	
Total PCB Amount > Reporting Limit	2 06		µg/g		

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director

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NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV532-19 NEA ID: AE02431
MATRIX: FISH DATE SAMPLED: 04/18/2001 TIME: N/A
DATE RECEIVED: 04/20/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 107	µg/g	4/27/01	
Aroclor 1221	ND	0 107	µg/g	4/27/01	
Aroclor 1232	ND	0 107	µg/g	4/27/01	
Aroclor 1242	0 134	0 107	µg/g	4/27/01	PD
Aroclor 1248	ND	0 107	µg/g	4/27/01	
Aroclor 1254	1 14	0 107	µg/g	4/27/01	
Aroclor 1260	0 148	0 107	µg/g	4/27/01	
Total PCB Amount > Reporting Limit	1 42		µg/g		

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

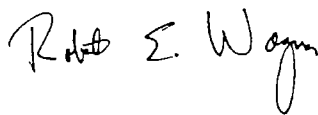
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV532-20 NEA ID: AE02432
MATRIX: FISH DATE SAMPLED: 04/18/2001 TIME: N/A
DATE RECEIVED: 04/20/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.104	µg/g	4/27/01	
Aroclor 1221	ND	0.104	µg/g	4/27/01	
Aroclor 1232	ND	0.104	µg/g	4/27/01	
Aroclor 1242	ND	0.104	µg/g	4/27/01	
Aroclor 1248	ND	0.104	µg/g	4/27/01	
Aroclor 1254	0.955	0.104	µg/g	4/27/01	
Aroclor 1260	0.136	0.104	µg/g	4/27/01	
Total PCB Amount > Reporting Limit	1.09		µg/g		

Note: There were few non-target peaks

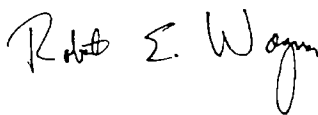
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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7106 CROSSROADS BLVD.

SUITE 228

BRENTWOOD, TN 37027

CONTACT: JIM ORR

CUSTOMER ID: SV532-21 NEA ID: AE02433
MATRIX: FISH DATE SAMPLED: 04/18/2001 TIME: N/A
DATE RECEIVED: 04/20/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 107	µg/g	4/27/01	
Aroclor 1221	ND	0 107	µg/g	4/27/01	
Aroclor 1232	ND	0 107	µg/g	4/27/01	
Aroclor 1242	0.174	0 107	µg/g	4/27/01	PD
Aroclor 1248	ND	0 107	µg/g	4/27/01	
Aroclor 1254	1 33	0 107	µg/g	4/27/01	
Aroclor 1260	0 182	0 107	µg/g	4/27/01	

Total PCB Amount > Reporting Limit 1 69 µg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE

Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director

NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS

05/02/2001

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV532-22 NEA ID: AE02434
MATRIX: FISH DATE SAMPLED: 04/18/2001 TIME: N/A
DATE RECEIVED: 04/20/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.165	µg/g	4/27/01	
Aroclor 1221	ND	0.165	µg/g	4/27/01	
Aroclor 1232	ND	0.165	µg/g	4/27/01	
Aroclor 1242	0.369	0.165	µg/g	4/27/01	PD
Aroclor 1248	ND	0.165	µg/g	4/27/01	
Aroclor 1254	2.75	0.165	µg/g	4/27/01	
Aroclor 1260	0.402	0.165	µg/g	4/27/01	

Total PCB Amount > Reporting Limit 3.52 µg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

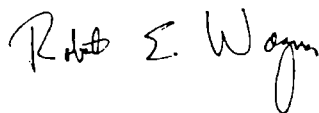
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director



NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV532-23 NEA ID: AE02435
MATRIX: FISH DATE SAMPLED: 04/18/2001 TIME: N/A
DATE RECEIVED: 04/20/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0550	µg/g	4/27/01	
Aroclor 1221	ND	0.0550	µg/g	4/27/01	
Aroclor 1232	ND	0.0550	µg/g	4/27/01	
Aroclor 1242	0.206	0.0550	µg/g	4/27/01	PD
Aroclor 1248	ND	0.0550	µg/g	4/27/01	
Aroclor 1254	1.09	0.0550	µg/g	4/27/01	
Aroclor 1260	0.150	0.0550	µg/g	4/27/01	

Total PCB Amount > Reporting Limit 1.45 µg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director

NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV532-24 NEA ID: AE02436
MATRIX: FISH DATE SAMPLED: 04/18/2001 TIME: N/A
DATE RECEIVED: 04/20/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0516	µg/g	4/27/01	
Aroclor 1221	ND	0.0516	µg/g	4/27/01	
Aroclor 1232	ND	0.0516	µg/g	4/27/01	
Aroclor 1242	0.139	0.0516	µg/g	4/27/01	PD
Aroclor 1248	ND	0.0516	µg/g	4/27/01	
Aroclor 1254	1.46	0.0516	µg/g	4/27/01	
Aroclor 1260	0.216	0.0516	µg/g	4/27/01	

Total PCB Amount > Reporting Limit 1.81 µg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director

NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.

7106 CROSSROADS BLVD.

SUITE 228

BRENTWOOD, TN 37027

CONTACT: JIM ORR

CUSTOMER ID: SV532-24 DUP NEA ID: AE02445
MATRIX: FISH DATE SAMPLED: 04/18/2001 TIME: N/A
DATE RECEIVED: 04/20/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0542	µg/g	4/27/01	
Aroclor 1221	ND	0.0542	µg/g	4/27/01	
Aroclor 1232	ND	0.0542	µg/g	4/27/01	
Aroclor 1242	0.0955	0.0542	µg/g	4/27/01	PD
Aroclor 1248	ND	0.0542	µg/g	4/27/01	
Aroclor 1254	1.05	0.0542	µg/g	4/27/01	
Aroclor 1260	0.133	0.0542	µg/g	4/27/01	

Total PCB Amount > Reporting Limit 1.28 µg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

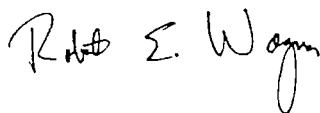
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director



NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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05/02/2001

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV532-25 NEA ID: AE02437
MATRIX: FISH DATE SAMPLED: 04/18/2001 TIME: N/A
DATE RECEIVED: 04/20/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0543	µg/g	4/27/01	
Aroclor 1221	ND	0.0543	µg/g	4/27/01	
Aroclor 1232	ND	0.0543	µg/g	4/27/01	
Aroclor 1242	0.0564	0.0543	µg/g	4/27/01	PD
Aroclor 1248	ND	0.0543	µg/g	4/27/01	
Aroclor 1254	0.0504	0.0543	µg/g	4/27/01	
Aroclor 1260	ND	0.0543	µg/g	4/27/01	
Total PCB Amount > Reporting Limit	0.0560		µg/g		

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

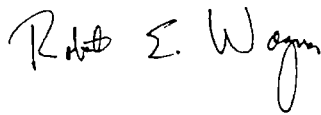
Note: There were few non-target peaks.

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Northeast Analytical, Inc.
Robert E. Wagner, Laboratory Director



NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

NORTHEAST ANALYTICAL



ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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05/02/2001

ERM- SOUTHEAST, INC.

7106 CROSSROADS BLVD.

SUITE 228

BRENTWOOD, TN 37027

CONTACT: JIM ORR

CUSTOMER ID: SV532-26 NEA ID: AE02438
MATRIX: FISH DATE SAMPLED: 04/18/2001 TIME: N/A
DATE RECEIVED: 04/20/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0542	µg/g	4/27/01
Aroclor 1221	ND	0.0542	µg/g	4/27/01
Aroclor 1232	ND	0.0542	µg/g	4/27/01
Aroclor 1242	ND	0.0542	µg/g	4/27/01
Aroclor 1248	ND	0.0542	µg/g	4/27/01
Aroclor 1254	0.808	0.0542	µg/g	4/27/01
Aroclor 1260	0.128	0.0542	µg/g	4/27/01
Total PCB Amount > Reporting Limit	0.936		µg/g	

Note: There were few non-target peaks

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Northeast Analytical, Inc

Robert E. Wagner, Laboratory Director

NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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05/03/2001

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV532-27 NEA ID: AE02449
MATRIX: FISH DATE SAMPLED: 04/19/2001 TIME: N/A
DATE RECEIVED: 04/23/2001 TIME: 8 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0545	µg/g	4/28/01	
Aroclor 1221	ND	0.0545	µg/g	4/28/01	
Aroclor 1232	ND	0.0545	µg/g	4/28/01	
Aroclor 1242	0.125	0.0545	µg/g	4/28/01	PD
Aroclor 1248	ND	0.0545	µg/g	4/28/01	
Aroclor 1254	1.41	0.0545	µg/g	4/28/01	
Aroclor 1260	0.223	0.0545	µg/g	4/28/01	

Total PCB Amount > Reporting Limit 1.76 µg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

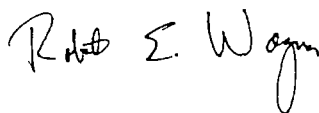
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director



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NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308
(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV535-01R NEA ID: AE02492
MATRIX: FISH DATE SAMPLED: 04/20/2001 TIME: N/A
DATE RECEIVED: 04/24/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0543	µg/g	5/2/01	
Aroclor 1221	ND	0.0543	µg/g	5/2/01	
Aroclor 1232	ND	0.0543	µg/g	5/2/01	
Aroclor 1242	0.104	0.0543	µg/g	5/2/01	PD
Aroclor 1248	ND	0.0543	µg/g	5/2/01	
Aroclor 1254	0.920	0.0543	µg/g	5/2/01	
Aroclor 1260	0.128	0.0543	µg/g	5/2/01	

Total PCB Amount > Reporting Limit 1.15 µg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

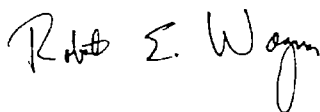
Note: There were few non-target peaks.

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE

Northeast Analytical, Inc.
Robert E. Wagner, Laboratory Director



NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.

7106 CROSSROADS BLVD.

SUITE 228

BRENTWOOD, TN 37027

CONTACT: JIM ORR

CUSTOMER ID: SV535-2 NEA ID: AE02450
MATRIX: FISH DATE SAMPLED: 04/19/2001 TIME: N/A
DATE RECEIVED: 04/23/2001 TIME: 8 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 0554	µg/g	4/28/01
Aroclor 1221	ND	0 0554	µg/g	4/28/01
Aroclor 1232	ND	0 0554	µg/g	4/28/01
Aroclor 1242	ND	0 0554	µg/g	4/28/01
Aroclor 1248	ND	0 0554	µg/g	4/28/01
Aroclor 1254	0 626	0 0554	µg/g	4/28/01
Aroclor 1260	0 136	0 0554	µg/g	4/28/01

Total PCB Amount > Reporting Limit 0 762 µg/g

Note There were few non-target peaks

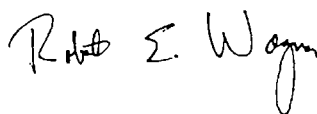
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Northeast Analytical, Inc

Robert E Wagner, Laboratory Director



NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308
(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV535-2 DUP NEA ID: AE02481
MATRIX: FISH DATE SAMPLED: 04/19/2001 TIME: N/A
DATE RECEIVED: 04/23/2001 TIME: 8 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 0533	µg/g	4/28/01	
Aroclor 1221	ND	0 0533	µg/g	4/28/01	
Aroclor 1232	ND	0 0533	µg/g	4/28/01	
Aroclor 1242	ND	0 0533	µg/g	4/28/01	
Aroclor 1248	ND	0 0533	µg/g	4/28/01	
Aroclor 1254	0 546	0 0533	µg/g	4/28/01	
Aroclor 1260	0 129	0 0533	µg/g	4/28/01	
Total PCB Amount > Reporting Limit	0 675	µg/g			

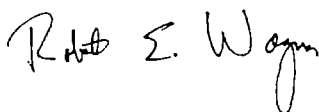
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E Wagner, Laboratory Director



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NORTHEAST ANALYTICAL

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2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.

7106 CROSSROADS BLVD.

SUITE 228

BRENTWOOD, TN 37027

CONTACT: JIM ORR

CUSTOMER ID: SV535-3 NEA ID: AE02451
MATRIX: FISH DATE SAMPLED: 04/19/2001 TIME: N/A
DATE RECEIVED: 04/23/2001 TIME: 8 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0542	µg/g	4/28/01
Aroclor 1221	ND	0.0542	µg/g	4/28/01
Aroclor 1232	ND	0.0542	µg/g	4/28/01
Aroclor 1242	ND	0.0542	µg/g	4/28/01
Aroclor 1248	ND	0.0542	µg/g	4/28/01
Aroclor 1254	0.200	0.0542	µg/g	4/28/01
Aroclor 1260	ND	0.0542	µg/g	4/28/01

Total PCB Amount > Reporting Limit 0.200 µg/g

Note: There were few non-target peaks

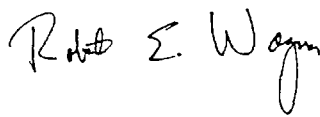
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director



NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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05/03/2001

ERM- SOUTHEAST, INC.

7106 CROSSROADS BLVD.

SUITE 228

BRENTWOOD, TN 37027

CONTACT: JIM ORR

CUSTOMER ID: SV535-4 NEA ID: AE02452
MATRIX: FISH DATE SAMPLED: 04/19/2001 TIME: N/A
DATE RECEIVED: 04/23/2001 TIME: 8 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 0530	µg/g	4/28/01
Aroclor 1221	ND	0 0530	µg/g	4/28/01
Aroclor 1232	ND	0 0530	µg/g	4/28/01
Aroclor 1242	ND	0 0530	µg/g	4/28/01
Aroclor 1248	ND	0 0530	µg/g	4/28/01
Aroclor 1254	0 166	0 0530	µg/g	4/28/01
Aroclor 1260	ND	0 0530	µg/g	4/28/01

Total PCB Amount > Reporting Limit 0 166 µg/g

Note There were several non-target peaks

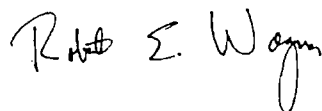
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc

Robert E Wagner Laboratory Director



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NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308
(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV535-4 DUP NEA ID: AE02482
MATRIX: FISH DATE SAMPLED: 04/19/2001 TIME: N/A
DATE RECEIVED: 04/23/2001 TIME: 8 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 0554	µg/g	4/29/01
Aroclor 1221	ND	0 0554	µg/g	4/29/01
Aroclor 1232	ND	0 0554	µg/g	4/29/01
Aroclor 1242	ND	0 0554	µg/g	4/29/01
Aroclor 1248	ND	0 0554	µg/g	4/29/01
Aroclor 1254	0 164	0 0554	µg/g	4/29/01
Aroclor 1260	ND	0 0554	µg/g	4/29/01

Total PCB Amount > Reporting Limit 0 164 µg/g

Note There were several non-target peaks

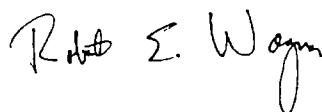
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E Wagner, Laboratory Director



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(518) 346-4592 • FAX (518) 381-6055

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV535-5 NEA ID: AE02453
MATRIX: FISH DATE SAMPLED: 04/19/2001 TIME: N/A
DATE RECEIVED: 04/23/2001 TIME: 8 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0551	µg/g	4/28/01
Aroclor 1221	ND	0.0551	µg/g	4/28/01
Aroclor 1232	ND	0.0551	µg/g	4/28/01
Aroclor 1242	ND	0.0551	µg/g	4/28/01
Aroclor 1248	ND	0.0551	µg/g	4/28/01
Aroclor 1254	0.228	0.0551	µg/g	4/28/01
Aroclor 1260	ND	0.0551	µg/g	4/28/01

Total PCB Amount > Reporting Limit 0.228 µg/g

Note There were several non-target peaks

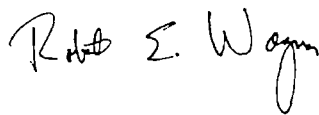
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner Laboratory Director



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2190 Technology Drive, Schenectady, NY 12308

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV535-6 NEA ID: AE02454
MATRIX: FISH DATE SAMPLED: 04/19/2001 TIME: N/A
DATE RECEIVED: 04/23/2001 TIME: 8 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0554	µg/g	4/28/01
Aroclor 1221	ND	0.0554	µg/g	4/28/01
Aroclor 1232	ND	0.0554	µg/g	4/28/01
Aroclor 1242	ND	0.0554	µg/g	4/28/01
Aroclor 1248	ND	0.0554	µg/g	4/28/01
Aroclor 1254	0.161	0.0554	µg/g	4/28/01
Aroclor 1260	ND	0.0554	µg/g	4/28/01

Total PCB Amount > Reporting Limit 0.161 µg/g

Note: There were several non-target peaks

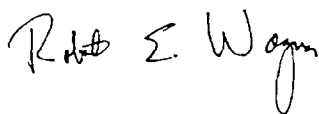
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner, Laboratory Director



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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV535-7 NEA ID: AE02455
MATRIX: FISH DATE SAMPLED: 04/19/2001 TIME: N/A
DATE RECEIVED: 04/23/2001 TIME: 8 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0543	µg/g	4/28/01
Aroclor 1221	ND	0.0543	µg/g	4/28/01
Aroclor 1232	ND	0.0543	µg/g	4/28/01
Aroclor 1242	ND	0.0543	µg/g	4/28/01
Aroclor 1248	ND	0.0543	µg/g	4/28/01
Aroclor 1254	0.136	0.0543	µg/g	4/28/01
Aroclor 1260	ND	0.0543	µg/g	4/28/01

Total PCB Amount > Reporting Limit 0.136 µg/g

Note: There were several non-target peaks

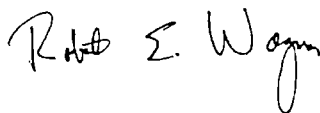
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner, Laboratory Director



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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV535-8 NEA ID: AE02456
MATRIX: FISH DATE SAMPLED: 04/19/2001 TIME: N/A
DATE RECEIVED: 04/23/2001 TIME: 8 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 0555	µg/g	4/28/01
Aroclor 1221	ND	0 0555	µg/g	4/28/01
Aroclor 1232	ND	0 0555	µg/g	4/28/01
Aroclor 1242	ND	0 0555	µg/g	4/28/01
Aroclor 1248	ND	0 0555	µg/g	4/28/01
Aroclor 1254	0 0735	0 0555	µg/g	4/28/01
Aroclor 1260	ND	0 0555	µg/g	4/28/01

Total PCB Amount > Reporting Limit 0 0735 µg/g

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E Wagner, Laboratory Director

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV535-9 NEA ID: AE02457
MATRIX: FISH DATE SAMPLED: 04/19/2001 TIME: N/A
DATE RECEIVED: 04/23/2001 TIME: 8 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 0553	µg/g	4/28/01
Aroclor 1221	ND	0 0553	µg/g	4/28/01
Aroclor 1232	ND	0 0553	µg/g	4/28/01
Aroclor 1242	ND	0 0553	µg/g	4/28/01
Aroclor 1248	ND	0 0553	µg/g	4/28/01
Aroclor 1254	0 120	0 0553	µg/g	4/28/01
Aroclor 1260	0 0571	0 0553	µg/g	4/28/01
Total PCB Amount > Reporting Limit	0 177	µg/g		

Note There were few non-target peaks

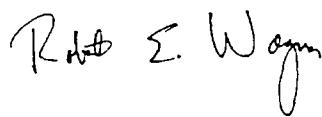
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E Wagner, Laboratory Director



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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV535-10 NEA ID: AE02458
MATRIX: FISH DATE SAMPLED: 04/19/2001 TIME: N/A
DATE RECEIVED: 04/23/2001 TIME: 8 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0551	µg/g	4/28/01
Aroclor 1221	ND	0.0551	µg/g	4/28/01
Aroclor 1232	ND	0.0551	µg/g	4/28/01
Aroclor 1242	ND	0.0551	µg/g	4/28/01
Aroclor 1248	ND	0.0551	µg/g	4/28/01
Aroclor 1254	0.209	0.0551	µg/g	4/28/01
Aroclor 1260	0.0565	0.0551	µg/g	4/28/01

Total PCB Amount > Reporting Limit 0.266 µg/g

Note: There were few non-target peaks

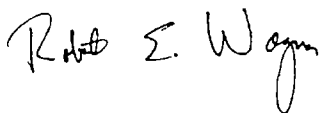
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner, Laboratory Director



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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV535011R NEA ID: AE02895
MATRIX: FISH DATE SAMPLED: 04/27/2001 TIME: N/A
DATE RECEIVED: 05/01/2001 TIME: 10 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

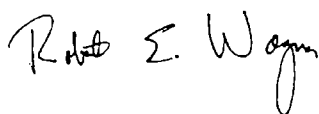
Aroclor 1016	ND	0.0507	µg/g	5/13/01	
Aroclor 1221	ND	0.0507	µg/g	5/13/01	
Aroclor 1232	ND	0.0507	µg/g	5/13/01	
Aroclor 1242	ND	0.0507	µg/g	5/13/01	
Aroclor 1248	ND	0.0507	µg/g	5/13/01	
Aroclor 1254	ND	0.0507	µg/g	5/13/01	
Aroclor 1260	ND	0.0507	µg/g	5/13/01	
Total PCB Amount > Reporting Limit	0.00		µg/g		

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Northeast Analytical, Inc
Robert E. Wagner, Laboratory Director



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NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308
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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV535-12 NEA ID: AE02460
MATRIX: FISH DATE SAMPLED: 04/19/2001 TIME: N/A
DATE RECEIVED: 04/23/2001 TIME: 8.00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0549	µg/g	4/28/01
Aroclor 1221	ND	0.0549	µg/g	4/28/01
Aroclor 1232	ND	0.0549	µg/g	4/28/01
Aroclor 1242	ND	0.0549	µg/g	4/28/01
Aroclor 1248	ND	0.0549	µg/g	4/28/01
Aroclor 1254	0.218	0.0549	µg/g	4/28/01
Aroclor 1260	ND	0.0549	µg/g	4/28/01
Total PCB Amount > Reporting Limit	0.218		µg/g	

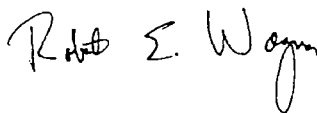
Note: There were several non-target peaks

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Northeast Analytical, Inc.
Robert E. Wagner, Laboratory Director



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2190 Technology Drive, Schenectady, NY 12308

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV535-13 NEA ID: AE02461
MATRIX: FISH DATE SAMPLED: 04/19/2001 TIME: N/A
DATE RECEIVED: 04/23/2001 TIME: 8 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0542	µg/g	4/28/01	
Aroclor 1221	ND	0.0542	µg/g	4/28/01	
Aroclor 1232	ND	0.0542	µg/g	4/28/01	
Aroclor 1242	0.0674	0.0542	µg/g	4/28/01	PD
Aroclor 1248	ND	0.0542	µg/g	4/28/01	
Aroclor 1254	1.50	0.0542	µg/g	4/28/01	
Aroclor 1260	0.300	0.0542	µg/g	4/28/01	

Total PCB Amount > Reporting Limit 1.87 µg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Robert E. Wagner, Laboratory Director

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2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.

7106 CROSSROADS BLVD.

SUITE 228

BRENTWOOD, TN 37027

CONTACT: JIM ORR

CUSTOMER ID: SV535-14 NEA ID: AE02462
MATRIX: FISH DATE SAMPLED: 04/19/2001 TIME: N/A
DATE RECEIVED: 04/23/2001 TIME: 8 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 0539	µg/g	4/30/01
Aroclor 1221	ND	0 0539	µg/g	4/30/01
Aroclor 1232	ND	0 0539	µg/g	4/30/01
Aroclor 1242	ND	0 0539	µg/g	4/30/01
Aroclor 1248	ND	0 0539	µg/g	4/30/01
Aroclor 1254	0 799	0 0539	µg/g	4/30/01
Aroclor 1260	0 195	0 0539	µg/g	4/30/01

Total PCB Amount > Reporting Limit 0 994 µg/g

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

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NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV535-15 NEA ID: AE02463
MATRIX: FISH DATE SAMPLED: 04/19/2001 TIME: N/A
DATE RECEIVED: 04/23/2001 TIME: 8 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0541	µg/g	4/30/01
Aroclor 1221	ND	0.0541	µg/g	4/30/01
Aroclor 1232	ND	0.0541	µg/g	4/30/01
Aroclor 1242	ND	0.0541	µg/g	4/30/01
Aroclor 1248	ND	0.0541	µg/g	4/30/01
Aroclor 1254	0.177	0.0541	µg/g	4/30/01
Aroclor 1260	ND	0.0541	µg/g	4/30/01

Total PCB Amount > Reporting Limit 0.177 µg/g

Note: There were few non-target peaks

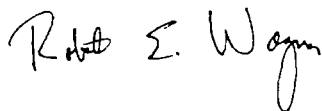
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner, Laboratory Director



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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV535-16 NEA ID: AE02464
MATRIX: FISH DATE SAMPLED: 04/19/2001 TIME: N/A
DATE RECEIVED: 04/23/2001 TIME: 8 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 0507	µg/g	4/30/01
Aroclor 1221	ND	0 0507	µg/g	4/30/01
Aroclor 1232	ND	0 0507	µg/g	4/30/01
Aroclor 1242	ND	0 0507	µg/g	4/30/01
Aroclor 1248	ND	0 0507	µg/g	4/30/01
Aroclor 1254	0 504	0 0507	µg/g	4/30/01
Aroclor 1260	0 066	0 0507	µg/g	4/30/01

Total PCB Amount > Reporting Limit 0 570 µg/g

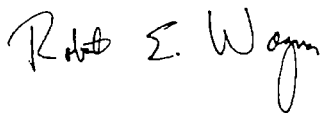
Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc
Robert E Wagner, Laboratory Director



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NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS

05/16/2001

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV-535017R NEA ID: AE02894
MATRIX: FISH DATE SAMPLED: 04/27/2001 TIME: N/A
DATE RECEIVED: 05/01/2001 TIME: 10 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.266	µg/g	5/13/01	
Aroclor 1221	ND	0.266	µg/g	5/13/01	
Aroclor 1232	ND	0.266	µg/g	5/13/01	
Aroclor 1242	0.586	0.266	µg/g	5/13/01	PD
Aroclor 1248	ND	0.266	µg/g	5/13/01	
Aroclor 1254	3.82	0.266	µg/g	5/13/01	
Aroclor 1260	0.556	0.266	µg/g	5/13/01	

Total PCB Amount > Reporting Limit 4.96 µg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

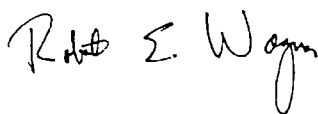
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE

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Robert E. Wagner, Laboratory Director



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NORTHEAST ANALYTICAL



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2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV535-18 NEA ID: AE02466
MATRIX: FISH DATE SAMPLED: 04/19/2001 TIME: N/A
DATE RECEIVED: 04/23/2001 TIME: 8 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0513	µg/g	6/11/01	
Aroclor 1221	ND	0.0513	µg/g	6/11/01	
Aroclor 1232	ND	0.0513	µg/g	6/11/01	
Aroclor 1242	0.170	0.0513	µg/g	6/11/01	PD
Aroclor 1248	ND	0.0513	µg/g	6/11/01	
Aroclor 1254	1.17	0.0513	µg/g	6/11/01	
Aroclor 1260	0.153	0.0513	µg/g	6/11/01	

Total PCB Amount > Reporting Limit 1.49 µg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director

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NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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05/03/2001

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV535-19 NEA ID: AE02467
MATRIX: FISH DATE SAMPLED: 04/19/2001 TIME: N/A
DATE RECEIVED: 04/23/2001 TIME: 8 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 166	µg/g	4/30/01	
Aroclor 1221	ND	0 166	µg/g	4/30/01	
Aroclor 1232	ND	0 166	µg/g	4/30/01	
Aroclor 1242	0 595	0 166	µg/g	4/30/01	PD
Aroclor 1248	ND	0 166	µg/g	4/30/01	
Aroclor 1254	3 14	0 166	µg/g	4/30/01	
Aroclor 1260	0 499	0 166	µg/g	4/30/01	
Total PCB Amount > Reporting Limit	4 23		µg/g		

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

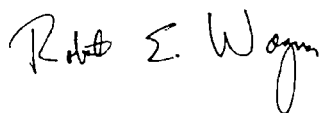
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director



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NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.

7106 CROSSROADS BLVD.

SUITE 228

BRENTWOOD, TN 37027

CONTACT: JIM ORR

CUSTOMER ID: SV535-20 NEA ID: AE02487
MATRIX: FISH DATE SAMPLED: 04/20/2001 TIME: N/A
DATE RECEIVED: 04/24/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 206	µg/g	5/1/01	
Aroclor 1221	ND	0 206	µg/g	5/1/01	
Aroclor 1232	ND	0 206	µg/g	5/1/01	
Aroclor 1242	0 666	0 206	µg/g	5/1/01	PD
Aroclor 1248	ND	0 206	µg/g	5/1/01	
Aroclor 1254	3 76	0 206	µg/g	5/1/01	
Aroclor 1260	0 530	0 206	µg/g	5/1/01	

Total PCB Amount > Reporting Limit 4 96 µg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Northeast Analytical, Inc

Robert E. Wagner, Laboratory Director

NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

NORTHEAST ANALYTICAL

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2190 Technology Drive, Schenectady, NY 12308

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7106 CROSSROADS BLVD.

SUITE 228

BRENTWOOD, TN 37027

CONTACT: JIM ORR

CUSTOMER ID: SV535-21 NEA ID: AE02488
MATRIX: FISH DATE SAMPLED: 04/20/2001 TIME: N/A
DATE RECEIVED: 04/24/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 108	µg/g	5/1/01	
Aroclor 1221	ND	0 108	µg/g	5/1/01	
Aroclor 1232	ND	0 108	µg/g	5/1/01	
Aroclor 1242	0 132	0 108	µg/g	5/1/01	PD
Aroclor 1248	ND	0 108	µg/g	5/1/01	
Aroclor 1254	1 32	0 108	µg/g	5/1/01	
Aroclor 1260	0 187	0 108	µg/g	5/1/01	

Total PCB Amount > Reporting Limit 1 64 µg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director

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NORTHEAST ANALYTICAL



ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308
(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV535-22 NEA ID: AE02489
MATRIX: FISH DATE SAMPLED: 04/20/2001 TIME: N/A
DATE RECEIVED: 04/24/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 105	µg/g	5/1/01	
Aroclor 1221	ND	0 105	µg/g	5/1/01	
Aroclor 1232	ND	0 105	µg/g	5/1/01	
Aroclor 1242	0 335	0 105	µg/g	5/1/01	PD
Aroclor 1248	ND	0 105	µg/g	5/1/01	
Aroclor 1254	2 19	0 105	µg/g	5/1/01	
Aroclor 1260	0 307	0 105	µg/g	5/1/01	

Total PCB Amount > Reporting Limit 2 83 µg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director

NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308
(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV535-23 NEA ID: AE02490
MATRIX: FISH DATE SAMPLED: 04/20/2001 TIME: N/A
DATE RECEIVED: 04/24/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.107	µg/g	5/1/01	
Aroclor 1221	ND	0.107	µg/g	5/1/01	
Aroclor 1232	ND	0.107	µg/g	5/1/01	
Aroclor 1242	0.298	0.107	µg/g	5/1/01	PD
Aroclor 1248	ND	0.107	µg/g	5/1/01	
Aroclor 1254	1.47	0.107	µg/g	5/1/01	
Aroclor 1260	0.213	0.107	µg/g	5/1/01	

Total PCB Amount > Reporting Limit 1.98 µg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

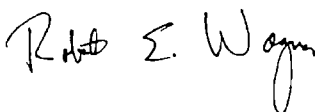
Note: There were few non-target peaks.

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Northeast Analytical, Inc.
Robert E. Wagner, Laboratory Director



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NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308
(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV535-24 NEA ID: AE02491
MATRIX: FISH DATE SAMPLED: 04/20/2001 TIME: N/A
DATE RECEIVED: 04/24/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.333	µg/g	5/1/01	
Aroclor 1221	ND	0.333	µg/g	5/1/01	
Aroclor 1232	ND	0.333	µg/g	5/1/01	
Aroclor 1242	0.831	0.333	µg/g	5/1/01	PD
Aroclor 1248	ND	0.333	µg/g	5/1/01	
Aroclor 1254	4.99	0.333	µg/g	5/1/01	
Aroclor 1260	0.760	0.333	µg/g	5/1/01	
Total PCB Amount > Reporting Limit	6.58		µg/g		

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

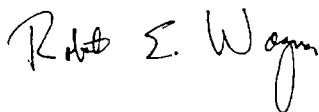
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE

Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director



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ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.

7106 CROSSROADS BLVD.

SUITE 228

BRENTWOOD, TN 37027

CONTACT: JIM ORR

CUSTOMER ID: SV641-01 NEA ID: AE02468
MATRIX: FISH DATE SAMPLED: 04/19/2001 TIME: N/A
DATE RECEIVED: 04/23/2001 TIME: 8 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0534	µg/g	4/30/01
Aroclor 1221	ND	0.0534	µg/g	4/30/01
Aroclor 1232	ND	0.0534	µg/g	4/30/01
Aroclor 1242	ND	0.0534	µg/g	4/30/01
Aroclor 1248	ND	0.0534	µg/g	4/30/01
Aroclor 1254	0.0688	0.0534	µg/g	4/30/01
Aroclor 1260	0.0563	0.0534	µg/g	4/30/01

Total PCB Amount > Reporting Limit 0.125 µg/g

Note: There were few non-target peaks

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director

NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.

7106 CROSSROADS BLVD.

SUITE 228

BRENTWOOD, TN 37027

CONTACT: JIM ORR

CUSTOMER ID: SV641-01 DUP NEA ID: AE02483
MATRIX: FISH DATE SAMPLED: 04/19/2001 TIME: N/A
DATE RECEIVED: 04/23/2001 TIME: 8 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 0517	µg/g	5/1/01
Aroclor 1221	ND	0 0517	µg/g	5/1/01
Aroclor 1232	ND	0 0517	µg/g	5/1/01
Aroclor 1242	ND	0 0517	µg/g	5/1/01
Aroclor 1248	ND	0 0517	µg/g	5/1/01
Aroclor 1254	0 169	0 0517	µg/g	5/1/01
Aroclor 1260	0 0956	0 0517	µg/g	5/1/01
Total PCB Amount > Reporting Limit	0 265	µg/g		

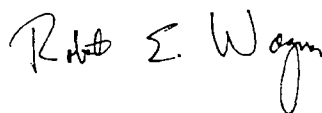
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E Wagner, Laboratory Director



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NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

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7106 CROSSROADS BLVD.

SUITE 228

BRENTWOOD, TN 37027

CONTACT: JIM ORR

CUSTOMER ID: SV641-02 NEA ID: AE02469
MATRIX: FISH DATE SAMPLED: 04/19/2001 TIME: N/A
DATE RECEIVED: 04/23/2001 TIME: 8 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0518	µg/g	4/30/01
Aroclor 1221	ND	0.0518	µg/g	4/30/01
Aroclor 1232	ND	0.0518	µg/g	4/30/01
Aroclor 1242	ND	0.0518	µg/g	4/30/01
Aroclor 1248	ND	0.0518	µg/g	4/30/01
Aroclor 1254	0.0954	0.0518	µg/g	4/30/01
Aroclor 1260	ND	0.0518	µg/g	4/30/01

Total PCB Amount > Reporting Limit 0.0954 µg/g

Note: There were few non-target peaks

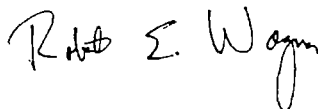
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Northeast Analytical, Inc.

Robert E. Wagner Laboratory Director



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NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV641-03 NEA ID: AE02470
MATRIX: FISH DATE SAMPLED: 04/19/2001 TIME: N/A
DATE RECEIVED: 04/23/2001 TIME: 8 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0539	µg/g	4/30/01
Aroclor 1221	ND	0.0539	µg/g	4/30/01
Aroclor 1232	ND	0.0539	µg/g	4/30/01
Aroclor 1242	ND	0.0539	µg/g	4/30/01
Aroclor 1248	ND	0.0539	µg/g	4/30/01
Aroclor 1254	0.0595	0.0539	µg/g	4/30/01
Aroclor 1260	ND	0.0539	µg/g	4/30/01

Total PCB Amount > Reporting Limit 0.0595 µg/g

Note: There were few non-target peaks

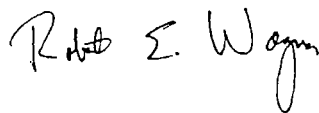
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

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Robert E. Wagner, Laboratory Director



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NORTHEAST ANALYTICAL

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2190 Technology Drive, Schenectady, NY 12308
(518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 05/03/2001

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV641-04 NEA ID: AE02471
MATRIX: FISH DATE SAMPLED: 04/19/2001 TIME: N/A
DATE RECEIVED: 04/23/2001 TIME: 8 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

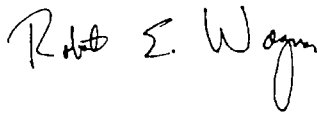
Aroclor 1016	ND	0.0546	µg/g	5/1/01	
Aroclor 1221	ND	0.0546	µg/g	5/1/01	
Aroclor 1232	ND	0.0546	µg/g	5/1/01	
Aroclor 1242	ND	0.0546	µg/g	5/1/01	
Aroclor 1248	ND	0.0546	µg/g	5/1/01	
Aroclor 1254	ND	0.0546	µg/g	5/1/01	
Aroclor 1260	ND	0.0546	µg/g	5/1/01	
Total PCB Amount > Reporting Limit	0.00		µg/g		

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc
Robert E. Wagner Laboratory Director



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ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV641-05 NEA ID: AE02472
MATRIX: FISH DATE SAMPLED: 04/19/2001 TIME: N/A
DATE RECEIVED: 04/23/2001 TIME: 8 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0545	µg/g	5/1/01
Aroclor 1221	ND	0.0545	µg/g	5/1/01
Aroclor 1232	ND	0.0545	µg/g	5/1/01
Aroclor 1242	ND	0.0545	µg/g	5/1/01
Aroclor 1248	ND	0.0545	µg/g	5/1/01
Aroclor 1254	0.104	0.0545	µg/g	5/1/01
Aroclor 1260	ND	0.0545	µg/g	5/1/01

Total PCB Amount > Reporting Limit 0.104 µg/g

Note: There were few non-target peaks

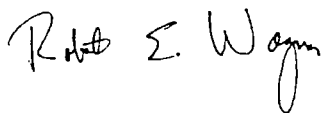
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner, Laboratory Director



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NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308
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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV641-06R NEA ID: AE02831
MATRIX: FISH DATE SAMPLED: 04/25/2001 TIME: N/A
DATE RECEIVED: 04/27/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0543	µg/g	5/13/01
Aroclor 1221	ND	0.0543	µg/g	5/13/01
Aroclor 1232	ND	0.0543	µg/g	5/13/01
Aroclor 1242	ND	0.0543	µg/g	5/13/01
Aroclor 1248	ND	0.0543	µg/g	5/13/01
Aroclor 1254	ND	0.0543	µg/g	5/13/01
Aroclor 1260	ND	0.0543	µg/g	5/13/01

Total PCB Amount > Reporting Limit 0.00 µg/g

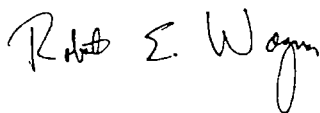
Note: There were few non-target peaks

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Northeast Analytical, Inc.
Robert E. Wagner, Laboratory Director



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NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV641-07 NEA ID: AE02474
MATRIX: FISH DATE SAMPLED: 04/19/2001 TIME: N/A
DATE RECEIVED: 04/23/2001 TIME: 8 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0533	µg/g	5/1/01
Aroclor 1221	ND	0.0533	µg/g	5/1/01
Aroclor 1232	ND	0.0533	µg/g	5/1/01
Aroclor 1242	ND	0.0533	µg/g	5/1/01
Aroclor 1248	ND	0.0533	µg/g	5/1/01
Aroclor 1254	0.0537	0.0533	µg/g	5/1/01
Aroclor 1260	ND	0.0533	µg/g	5/1/01

Total PCB Amount > Reporting Limit 0.0537 µg/g

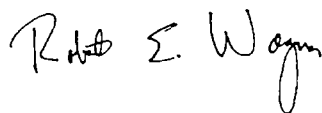
Note: There were few non-target peaks

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner, Laboratory Director



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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV641-08 NEA ID: AE02475
MATRIX: FISH DATE SAMPLED: 04/19/2001 TIME: N/A
DATE RECEIVED: 04/23/2001 TIME: 8 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0534	µg/g	5/1/01
Aroclor 1221	ND	0.0534	µg/g	5/1/01
Aroclor 1232	ND	0.0534	µg/g	5/1/01
Aroclor 1242	ND	0.0534	µg/g	5/1/01
Aroclor 1248	ND	0.0534	µg/g	5/1/01
Aroclor 1254	0.0746	0.0534	µg/g	5/1/01
Aroclor 1260	ND	0.0534	µg/g	5/1/01

Total PCB Amount > Reporting Limit 0.0746 µg/g

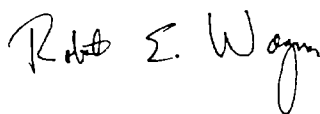
Note: There were few non-target peaks

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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(518) 346-4592 • FAX (518) 381-6055

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV641-09 NEA ID: AE02476
MATRIX: FISH DATE SAMPLED: 04/19/2001 TIME: N/A
DATE RECEIVED: 04/23/2001 TIME: 8 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 0519	µg/g	6/10/01	
Aroclor 1221	ND	0 0519	µg/g	6/10/01	
Aroclor 1232	ND	0 0519	µg/g	6/10/01	
Aroclor 1242	0 0697	0 0519	µg/g	6/10/01	PD
Aroclor 1248	ND	0 0519	µg/g	6/10/01	
Aroclor 1254	0 642	0 0519	µg/g	6/10/01	
Aroclor 1260	0 108	0 0519	µg/g	6/10/01	

Total PCB Amount > Reporting Limit 0 820 µg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Robert E. Wagner, Laboratory Director

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2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.

7106 CROSSROADS BLVD.

SUITE 228

BRENTWOOD, TN 37027

CONTACT: JIM ORR

CUSTOMER ID: SV641-10 NEA ID: AE02477
MATRIX: FISH DATE SAMPLED: 04/19/2001 TIME: N/A
DATE RECEIVED: 04/23/2001 TIME: 8 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 0539	µg/g	6/10/01
Aroclor 1221	ND	0 0539	µg/g	6/10/01
Aroclor 1232	ND	0 0539	µg/g	6/10/01
Aroclor 1242	ND	0 0539	µg/g	6/10/01
Aroclor 1248	ND	0 0539	µg/g	6/10/01
Aroclor 1254	0 182	0 0539	µg/g	6/10/01
Aroclor 1260	ND	0 0539	µg/g	6/10/01

Total PCB Amount > Reporting Limit 0 182 µg/g

Note There were few non-target peaks

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Northeast Analytical, Inc

Robert E Wagner, Laboratory Director

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NORTHEAST ANALYTICAL

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2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV641-11 NEA ID: AE02478
MATRIX: FISH DATE SAMPLED: 04/19/2001 TIME: N/A
DATE RECEIVED: 04/23/2001 TIME: 8 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0517	µg/g	5/1/01
Aroclor 1221	ND	0.0517	µg/g	5/1/01
Aroclor 1232	ND	0.0517	µg/g	5/1/01
Aroclor 1242	ND	0.0517	µg/g	5/1/01
Aroclor 1248	ND	0.0517	µg/g	5/1/01
Aroclor 1254	0.0665	0.0517	µg/g	5/1/01
Aroclor 1260	ND	0.0517	µg/g	5/1/01

Total PCB Amount > Reporting Limit 0.0665 µg/g

Note: There were few non-target peaks

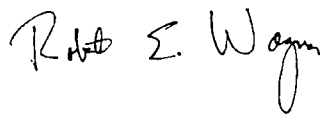
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Northeast Analytical, Inc

Robert E. Wagner, Laboratory Director



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NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308
(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV641-12R NEA ID: AE02896
MATRIX: FISH DATE SAMPLED: 04/27/2001 TIME: N/A
DATE RECEIVED: 05/01/2001 TIME: 10 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0516	µg/g	5/13/01
Aroclor 1221	ND	0.0516	µg/g	5/13/01
Aroclor 1232	ND	0.0516	µg/g	5/13/01
Aroclor 1242	ND	0.0516	µg/g	5/13/01
Aroclor 1248	ND	0.0516	µg/g	5/13/01
Aroclor 1254	0.252	0.0516	µg/g	5/13/01
Aroclor 1260	0.0682	0.0516	µg/g	5/13/01
Total PCB Amount > Reporting Limit	0.320		µg/g	

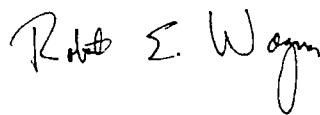
Note: There were few non-target peaks

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Northeast Analytical, Inc.
Robert E. Wagner, Laboratory Director



NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.

7106 CROSSROADS BLVD.

SUITE 228

BRENTWOOD, TN 37027

CONTACT: JIM ORR

CUSTOMER ID: SV641-13 NEA ID: AE02494
MATRIX: FISH DATE SAMPLED: 04/20/2001 TIME: N/A
DATE RECEIVED: 04/24/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.154	µg/g	5/2/01	
Aroclor 1221	ND	0.154	µg/g	5/2/01	
Aroclor 1232	ND	0.154	µg/g	5/2/01	
Aroclor 1242	0.386	0.154	µg/g	5/2/01	PD
Aroclor 1248	ND	0.154	µg/g	5/2/01	
Aroclor 1254	2.99	0.154	µg/g	5/2/01	
Aroclor 1260	0.458	0.154	µg/g	5/2/01	

Total PCB Amount > Reporting Limit 3.83 µg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

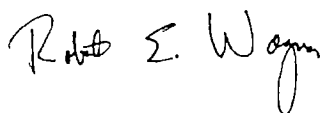
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director



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NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV641-14R NEA ID: AE02897
MATRIX: FISH DATE SAMPLED: 04/27/2001 TIME: N/A
DATE RECEIVED: 05/01/2001 TIME: 10 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.104	µg/g	5/13/01	
Aroclor 1221	ND	0.104	µg/g	5/13/01	
Aroclor 1232	ND	0.104	µg/g	5/13/01	
Aroclor 1242	0.435	0.104	µg/g	5/13/01	PD
Aroclor 1248	ND	0.104	µg/g	5/13/01	
Aroclor 1254	2.86	0.104	µg/g	5/13/01	
Aroclor 1260	0.483	0.104	µg/g	5/13/01	

Total PCB Amount > Reporting Limit 3.78 µg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

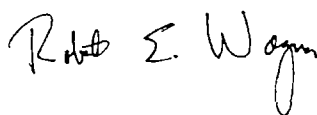
Note: There were few non-target peaks.

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Northeast Analytical, Inc.
Robert E. Wagner, Laboratory Director



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NORTHEAST ANALYTICAL

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2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV641-15 NEA ID: AE02517
MATRIX: FISH DATE SAMPLED: 04/20/2001 TIME: N/A
DATE RECEIVED: 04/24/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0550	µg/g	5/3/01
Aroclor 1221	ND	0.0550	µg/g	5/3/01
Aroclor 1232	ND	0.0550	µg/g	5/3/01
Aroclor 1242	ND	0.0550	µg/g	5/3/01
Aroclor 1248	ND	0.0550	µg/g	5/3/01
Aroclor 1254	ND	0.0550	µg/g	5/3/01
Aroclor 1260	ND	0.0550	µg/g	5/3/01
Total PCB Amount > Reporting Limit	0.00	µg/g		

Note: There were few non-target peaks

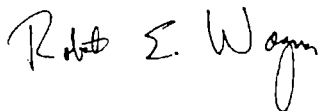
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner, Laboratory Director



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ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV641-16 NEA ID: AE02518
MATRIX: FISH DATE SAMPLED: 04/20/2001 TIME: N/A
DATE RECEIVED: 04/24/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0514	µg/g	5/3/01
Aroclor 1221	ND	0.0514	µg/g	5/3/01
Aroclor 1232	ND	0.0514	µg/g	5/3/01
Aroclor 1242	ND	0.0514	µg/g	5/3/01
Aroclor 1248	ND	0.0514	µg/g	5/3/01
Aroclor 1254	ND	0.0514	µg/g	5/3/01
Aroclor 1260	ND	0.0514	µg/g	5/3/01
Total PCB Amount > Reporting Limit	0.00		µg/g	

Note: There were few non-target peaks

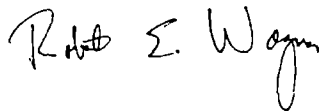
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

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Robert E. Wagner, Laboratory Director



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NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308
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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV641-17 NEA ID: AE02826
MATRIX: FISH DATE SAMPLED: 04/25/2001 TIME: N/A
DATE RECEIVED: 04/27/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0505	µg/g	5/13/01
Aroclor 1221	ND	0.0505	µg/g	5/13/01
Aroclor 1232	ND	0.0505	µg/g	5/13/01
Aroclor 1242	ND	0.0505	µg/g	5/13/01
Aroclor 1248	ND	0.0505	µg/g	5/13/01
Aroclor 1254	0.858	0.0505	µg/g	5/13/01
Aroclor 1260	0.152	0.0505	µg/g	5/13/01

Total PCB Amount > Reporting Limit 1.01 µg/g

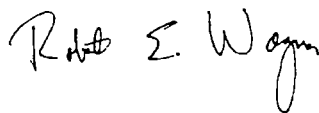
Note: There were few non-target peaks

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner, Laboratory Director



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2190 Technology Drive, Schenectady, NY 12308

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7106 CROSSROADS BLVD.

SUITE 228

BRENTWOOD, TN 37027

CONTACT: JIM ORR

CUSTOMER ID: SV641-17 DUP NEA ID: AE02836
MATRIX: FISH DATE SAMPLED: 04/25/2001 TIME: N/A
DATE RECEIVED: 04/27/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0512	µg/g	5/13/01
Aroclor 1221	ND	0.0512	µg/g	5/13/01
Aroclor 1232	ND	0.0512	µg/g	5/13/01
Aroclor 1242	ND	0.0512	µg/g	5/13/01
Aroclor 1248	ND	0.0512	µg/g	5/13/01
Aroclor 1254	0.661	0.0512	µg/g	5/13/01
Aroclor 1260	0.109	0.0512	µg/g	5/13/01

Total PCB Amount > Reporting Limit 0.770 µg/g

Note: There were few non-target peaks

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV641-18 NEA ID: AE02827
MATRIX: FISH DATE SAMPLED: 04/25/2001 TIME: N/A
DATE RECEIVED: 04/27/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.102	µg/g	5/13/01
Aroclor 1221	ND	0.102	µg/g	5/13/01
Aroclor 1232	ND	0.102	µg/g	5/13/01
Aroclor 1242	ND	0.102	µg/g	5/13/01
Aroclor 1248	ND	0.102	µg/g	5/13/01
Aroclor 1254	3.67	0.102	µg/g	5/13/01
Aroclor 1260	0.620	0.102	µg/g	5/13/01
Total PCB Amount > Reporting Limit	4.29		µg/g	

Note: There were few non-target peaks

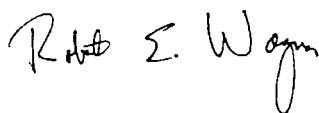
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV641-19 NEA ID: AE02828
MATRIX: FISH DATE SAMPLED: 04/25/2001 TIME: N/A
DATE RECEIVED: 04/27/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 0555	µg/g	5/13/01	
Aroclor 1221	ND	0 0555	µg/g	5/13/01	
Aroclor 1232	ND	0 0555	µg/g	5/13/01	
Aroclor 1242	0 108	0 0555	µg/g	5/13/01	PD
Aroclor 1248	ND	0 0555	µg/g	5/13/01	
Aroclor 1254	0 882	0 0555	µg/g	5/13/01	
Aroclor 1260	0 147	0 0555	µg/g	5/13/01	

Total PCB Amount > Reporting Limit 1 14 µg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV641-20 NEA ID: AE02829
MATRIX : FISH DATE SAMPLED: 04/25/2001 TIME: N/A
DATE RECEIVED: 04/27/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.103	µg/g	5/13/01	
Aroclor 1221	ND	0.103	µg/g	5/13/01	
Aroclor 1232	ND	0.103	µg/g	5/13/01	
Aroclor 1242	0.438	0.103	µg/g	5/13/01	PD
Aroclor 1248	ND	0.103	µg/g	5/13/01	
Aroclor 1254	2.50	0.103	µg/g	5/13/01	
Aroclor 1260	0.378	0.103	µg/g	5/13/01	
Total PCB Amount > Reporting Limit	3.32		µg/g		

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

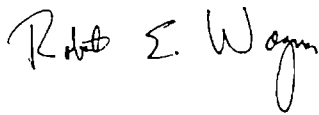
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Robert E. Wagner, Laboratory Director



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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV641-21 NEA ID: AE02830
MATRIX: FISH DATE SAMPLED: 04/25/2001 TIME: N/A
DATE RECEIVED: 04/27/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0534	µg/g	5/13/01
Aroclor 1221	ND	0.0534	µg/g	5/13/01
Aroclor 1232	ND	0.0534	µg/g	5/13/01
Aroclor 1242	ND	0.0534	µg/g	5/13/01
Aroclor 1248	ND	0.0534	µg/g	5/13/01
Aroclor 1254	0.270	0.0534	µg/g	5/13/01
Aroclor 1260	0.0721	0.0534	µg/g	5/13/01

Total PCB Amount > Reporting Limit 0.342 µg/g

Note: There were few non-target peaks

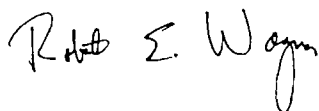
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner, Laboratory Director



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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV641-22 NEA ID: AE02815
MATRIX: FISH DATE SAMPLED: 04/26/2001 TIME: N/A
DATE RECEIVED: 04/28/2001 TIME: 11 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 109	µg/g	5/12/01	
Aroclor 1221	ND	0 109	µg/g	5/12/01	
Aroclor 1232	ND	0 109	µg/g	5/12/01	
Aroclor 1242	0 387	0 109	µg/g	5/12/01	PD
Aroclor 1248	ND	0 109	µg/g	5/12/01	
Aroclor 1254	3 09	0 109	µg/g	5/12/01	
Aroclor 1260	0 561	0 109	µg/g	5/12/01	
Total PCB Amount > Reporting Limit	4 04		µg/g		

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

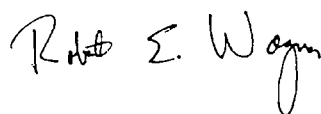
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV641-23 NEA ID: AE02816
MATRIX: FISH DATE SAMPLED: 04/26/2001 TIME: N/A
DATE RECEIVED: 04/28/2001 TIME: 11 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0516	µg/g	5/12/01
Aroclor 1221	ND	0.0516	µg/g	5/12/01
Aroclor 1232	ND	0.0516	µg/g	5/12/01
Aroclor 1242	ND	0.0516	µg/g	5/12/01
Aroclor 1248	ND	0.0516	µg/g	5/12/01
Aroclor 1254	0.0763	0.0516	µg/g	5/12/01
Aroclor 1260	ND	0.0516	µg/g	5/12/01

Total PCB Amount > Reporting Limit 0.0763 µg/g

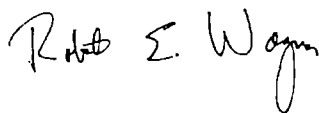
Note: There were few non-target peaks

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

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Robert E. Wagner, Laboratory Director



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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV641-24 NEA ID: AE02817
MATRIX: FISH DATE SAMPLED: 04/26/2001 TIME: N/A
DATE RECEIVED: 04/28/2001 TIME: 11.30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0522	µg/g	5/12/01
Aroclor 1221	ND	0.0522	µg/g	5/12/01
Aroclor 1232	ND	0.0522	µg/g	5/12/01
Aroclor 1242	ND	0.0522	µg/g	5/12/01
Aroclor 1248	ND	0.0522	µg/g	5/12/01
Aroclor 1254	ND	0.0522	µg/g	5/12/01
Aroclor 1260	ND	0.0522	µg/g	5/12/01
Total PCB Amount > Reporting Limit	0.00	µg/g		

Note: There were few non-target peaks

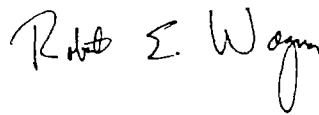
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner, Laboratory Director



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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV641-25 NEA ID: AE02818
MATRIX: FISH DATE SAMPLED: 04/26/2001 TIME: N/A
DATE RECEIVED: 04/28/2001 TIME: 11 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0514	µg/g	5/12/01
Aroclor 1221	ND	0.0514	µg/g	5/12/01
Aroclor 1232	ND	0.0514	µg/g	5/12/01
Aroclor 1242	ND	0.0514	µg/g	5/12/01
Aroclor 1248	ND	0.0514	µg/g	5/12/01
Aroclor 1254	ND	0.0514	µg/g	5/12/01
Aroclor 1260	ND	0.0514	µg/g	5/12/01

Total PCB Amount > Reporting Limit 0.00 µg/g

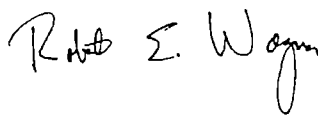
Note: There were few non-target peaks

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner, Laboratory Director



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7106 CROSSROADS BLVD.

SUITE 228

BRENTWOOD, TN 37027

CONTACT: JIM ORR

CUSTOMER ID: SV641-26 NEA ID: AE02898
MATRIX: FISH DATE SAMPLED: 04/27/2001 TIME: N/A
DATE RECEIVED: 05/01/2001 TIME: 10 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 107	µg/g	5/14/01	
Aroclor 1221	ND	0 107	µg/g	5/14/01	
Aroclor 1232	ND	0 107	µg/g	5/14/01	
Aroclor 1242	0 414	0 107	µg/g	5/14/01	PD
Aroclor 1248	ND	0 107	µg/g	5/14/01	
Aroclor 1254	2 36	0 107	µg/g	5/14/01	
Aroclor 1260	0 327	0 107	µg/g	5/14/01	

Total PCB Amount > Reporting Limit 3 10 µg/g

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

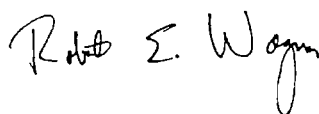
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE.

Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director



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2190 Technology Drive, Schenectady, NY 12308

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SUITE 228

BRENTWOOD, TN 37027

CONTACT: JIM ORR

CUSTOMER ID: SV641-27 NEA ID: AE02834
MATRIX: FISH DATE SAMPLED: 04/25/2001 TIME: N/A
DATE RECEIVED: 04/27/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0551	µg/g	5/13/01
Aroclor 1221	ND	0.0551	µg/g	5/13/01
Aroclor 1232	ND	0.0551	µg/g	5/13/01
Aroclor 1242	ND	0.0551	µg/g	5/13/01
Aroclor 1248	ND	0.0551	µg/g	5/13/01
Aroclor 1254	0.313	0.0551	µg/g	5/13/01
Aroclor 1260	0.0573	0.0551	µg/g	5/13/01

Total PCB Amount > Reporting Limit 0.370 µg/g

Note: There were few non-target peaks

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc

Robert E. Wagner, Laboratory Director

NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV642-01 NEA ID: AE02503
MATRIX: FISH DATE SAMPLED: 04/20/2001 TIME: N/A
DATE RECEIVED: 04/24/2001 TIME: 10:30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0541	µg/g	5/2/01
Aroclor 1221	ND	0.0541	µg/g	5/2/01
Aroclor 1232	ND	0.0541	µg/g	5/2/01
Aroclor 1242	ND	0.0541	µg/g	5/2/01
Aroclor 1248	ND	0.0541	µg/g	5/2/01
Aroclor 1254	0.496	0.0541	µg/g	5/2/01
Aroclor 1260	0.162	0.0541	µg/g	5/2/01

Total PCB Amount > Reporting Limit 0.658 µg/g

Note: There were few non-target peaks

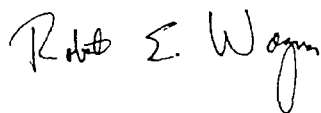
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner, Laboratory Director



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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV642-02 NEA ID: AE02504
MATRIX: FISH DATE SAMPLED: 04/20/2001 TIME: N/A
DATE RECEIVED: 04/24/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0552	µg/g	5/3/01
Aroclor 1221	ND	0.0552	µg/g	5/3/01
Aroclor 1232	ND	0.0552	µg/g	5/3/01
Aroclor 1242	ND	0.0552	µg/g	5/3/01
Aroclor 1248	ND	0.0552	µg/g	5/3/01
Aroclor 1254	ND	0.0552	µg/g	5/3/01
Aroclor 1260	ND	0.0552	µg/g	5/3/01
Total PCB Amount > Reporting Limit	0.00	µg/g		

Note: There were few non-target peaks

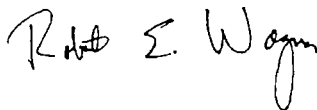
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner, Laboratory Director



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2190 Technology Drive, Schenectady, NY 12308

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7106 CROSSROADS BLVD.

SUITE 228

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CONTACT: JIM ORR

CUSTOMER ID: SV642-03 NEA ID: AE02505
MATRIX: FISH DATE SAMPLED: 04/20/2001 TIME: N/A
DATE RECEIVED: 04/24/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0534	µg/g	5/3/01
Aroclor 1221	ND	0.0534	µg/g	5/3/01
Aroclor 1232	ND	0.0534	µg/g	5/3/01
Aroclor 1242	ND	0.0534	µg/g	5/3/01
Aroclor 1248	ND	0.0534	µg/g	5/3/01
Aroclor 1254	0.126	0.0534	µg/g	5/3/01
Aroclor 1260	0.0918	0.0534	µg/g	5/3/01
Total PCB Amount > Reporting Limit	0.218		µg/g	

Note: There were few non-target peaks

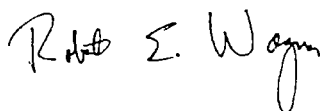
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner, Laboratory Director



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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV642-04 NEA ID: AE02506
MATRIX: FISH DATE SAMPLED: 04/20/2001 TIME: N/A
DATE RECEIVED: 04/24/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 0528	µg/g	5/3/01
Aroclor 1221	ND	0 0528	µg/g	5/3/01
Aroclor 1232	ND	0 0528	µg/g	5/3/01
Aroclor 1242	ND	0 0528	µg/g	5/3/01
Aroclor 1248	ND	0 0528	µg/g	5/3/01
Aroclor 1254	0 0722	0 0528	µg/g	5/3/01
Aroclor 1260	0 0566	0 0528	µg/g	5/3/01
Total PCB Amount > Reporting Limit	0 129	µg/g		

Note There were few non-target peaks

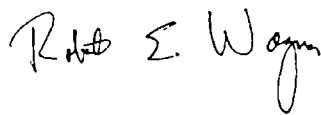
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E Wagner Laboratory Director



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NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV642-05 NEA ID: AE02507
MATRIX: FISH DATE SAMPLED: 04/20/2001 TIME: N/A
DATE RECEIVED: 04/24/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0549	µg/g	5/3/01	
Aroclor 1221	ND	0.0549	µg/g	5/3/01	
Aroclor 1232	ND	0.0549	µg/g	5/3/01	
Aroclor 1242	ND	0.0549	µg/g	5/3/01	
Aroclor 1248	ND	0.0549	µg/g	5/3/01	
Aroclor 1254	0.076	0.0549	µg/g	5/3/01	
Aroclor 1260	ND	0.0549	µg/g	5/3/01	

Total PCB Amount > Reporting Limit 0.0760 µg/g

Note: There were few non-target peaks

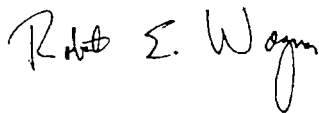
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner, Laboratory Director



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NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

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7106 CROSSROADS BLVD.

SUITE 228

BRENTWOOD, TN 37027

CONTACT: JIM ORR

CUSTOMER ID: SV642-06 50 NEA ID: AE02473
MATRIX: FISH DATE SAMPLED: 04/19/2001 TIME: N/A
DATE RECEIVED: 04/23/2001 TIME: 8 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0537	µg/g	5/1/01
Aroclor 1221	ND	0.0537	µg/g	5/1/01
Aroclor 1232	ND	0.0537	µg/g	5/1/01
Aroclor 1242	ND	0.0537	µg/g	5/1/01
Aroclor 1248	ND	0.0537	µg/g	5/1/01
Aroclor 1254	0.101	0.0537	µg/g	5/1/01
Aroclor 1260	ND	0.0537	µg/g	5/1/01

Total PCB Amount > Reporting Limit 0.101 µg/g

Note: There were few non-target peaks

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Northeast Analytical, Inc

Robert E. Wagner, Laboratory Director

NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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7106 CROSSROADS BLVD.

SUITE 228

BRENTWOOD, TN 37027

CONTACT: JIM ORR

CUSTOMER ID: SV642-07 NEA ID: AE02509
MATRIX: FISH DATE SAMPLED: 04/20/2001 TIME: N/A
DATE RECEIVED: 04/24/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0537	µg/g	5/3/01
Aroclor 1221	ND	0.0537	µg/g	5/3/01
Aroclor 1232	ND	0.0537	µg/g	5/3/01
Aroclor 1242	ND	0.0537	µg/g	5/3/01
Aroclor 1248	ND	0.0537	µg/g	5/3/01
Aroclor 1254	ND	0.0537	µg/g	5/3/01
Aroclor 1260	ND	0.0537	µg/g	5/3/01

Total PCB Amount > Reporting Limit 0.00 µg/g

Note: There were few non-target peaks

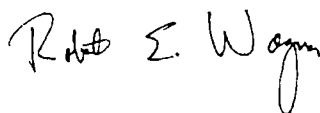
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner, Laboratory Director



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NORTHEAST ANALYTICAL

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2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV642-08 NEA ID: AE02510
MATRIX: FISH DATE SAMPLED: 04/20/2001 TIME: N/A
DATE RECEIVED: 04/24/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0547	µg/g	5/3/01
Aroclor 1221	ND	0.0547	µg/g	5/3/01
Aroclor 1232	ND	0.0547	µg/g	5/3/01
Aroclor 1242	ND	0.0547	µg/g	5/3/01
Aroclor 1248	ND	0.0547	µg/g	5/3/01
Aroclor 1254	ND	0.0547	µg/g	5/3/01
Aroclor 1260	ND	0.0547	µg/g	5/3/01

Total PCB Amount > Reporting Limit 0.00 µg/g

Note: There were few non-target peaks

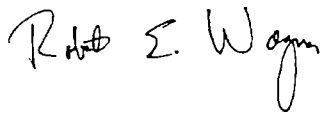
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner, Laboratory Director



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NORTHEAST ANALYTICAL

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2190 Technology Drive, Schenectady, NY 12308

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7106 CROSSROADS BLVD.

SUITE 228

BRENTWOOD, TN 37027

CONTACT: JIM ORR

CUSTOMER ID: SV642-09 NEA ID: AE02511
MATRIX: FISH DATE SAMPLED: 04/20/2001 TIME: N/A
DATE RECEIVED: 04/24/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0543	µg/g	5/3/01
Aroclor 1221	ND	0.0543	µg/g	5/3/01
Aroclor 1232	ND	0.0543	µg/g	5/3/01
Aroclor 1242	ND	0.0543	µg/g	5/3/01
Aroclor 1248	ND	0.0543	µg/g	5/3/01
Aroclor 1254	0.0986	0.0543	µg/g	5/3/01
Aroclor 1260	0.0679	0.0543	µg/g	5/3/01
Total PCB Amount > Reporting Limit	0.167		µg/g	

Note: There were few non-target peaks

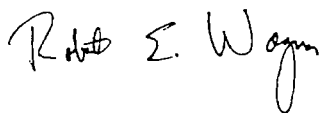
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner, Laboratory Director



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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV642-10 NEA ID: AE02512
MATRIX: FISH DATE SAMPLED: 04/20/2001 TIME: N/A
DATE RECEIVED: 04/24/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0530	µg/g	5/3/01
Aroclor 1221	ND	0.0530	µg/g	5/3/01
Aroclor 1232	ND	0.0530	µg/g	5/3/01
Aroclor 1242	ND	0.0530	µg/g	5/3/01
Aroclor 1248	ND	0.0530	µg/g	5/3/01
Aroclor 1254	ND	0.0530	µg/g	5/3/01
Aroclor 1260	ND	0.0530	µg/g	5/3/01

Total PCB Amount > Reporting Limit 0.00 µg/g

Note: There were few non-target peaks

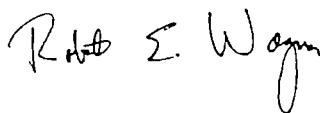
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner, Laboratory Director



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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV642-10 DUP NEA ID: AE02523
MATRIX: FISH DATE SAMPLED: 04/20/2001 TIME: N/A
DATE RECEIVED: 04/24/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0540	µg/g	5/3/01
Aroclor 1221	ND	0.0540	µg/g	5/3/01
Aroclor 1232	ND	0.0540	µg/g	5/3/01
Aroclor 1242	ND	0.0540	µg/g	5/3/01
Aroclor 1248	ND	0.0540	µg/g	5/3/01
Aroclor 1254	ND	0.0540	µg/g	5/3/01
Aroclor 1260	ND	0.0540	µg/g	5/3/01

Total PCB Amount > Reporting Limit 0.00 µg/g

Note: There were few non-target peaks

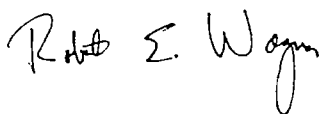
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

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Robert E. Wagner, Laboratory Director



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2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV642-11 NEA ID: AE02513
MATRIX: FISH DATE SAMPLED: 04/20/2001 TIME: N/A
DATE RECEIVED: 04/24/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0554	µg/g	5/3/01
Aroclor 1221	ND	0.0554	µg/g	5/3/01
Aroclor 1232	ND	0.0554	µg/g	5/3/01
Aroclor 1242	ND	0.0554	µg/g	5/3/01
Aroclor 1248	ND	0.0554	µg/g	5/3/01
Aroclor 1254	ND	0.0554	µg/g	5/3/01
Aroclor 1260	ND	0.0554	µg/g	5/3/01

Total PCB Amount > Reporting Limit 0.00 µg/g

Note: There were few non-target peaks

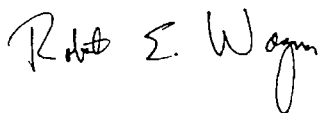
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner, Laboratory Director



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2190 Technology Drive, Schenectady, NY 12308
(518) 346-4592 • FAX (518) 381-6055

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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV642-12 NEA ID: AE02514
MATRIX: FISH DATE SAMPLED: 04/20/2001 TIME: N/A
DATE RECEIVED: 04/24/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0551	µg/g	5/3/01
Aroclor 1221	ND	0.0551	µg/g	5/3/01
Aroclor 1232	ND	0.0551	µg/g	5/3/01
Aroclor 1242	ND	0.0551	µg/g	5/3/01
Aroclor 1248	ND	0.0551	µg/g	5/3/01
Aroclor 1254	0.0847	0.0551	µg/g	5/3/01
Aroclor 1260	ND	0.0551	µg/g	5/3/01
Total PCB Amount > Reporting Limit	0.0847		µg/g	

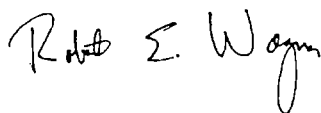
Note: There were few non-target peaks

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc.
Robert E. Wagner, Laboratory Director



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NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV642-13 NEA ID: AE02515
MATRIX: FISH DATE SAMPLED: 04/20/2001 TIME: N/A
DATE RECEIVED: 04/24/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0536	µg/g	5/3/01
Aroclor 1221	ND	0.0536	µg/g	5/3/01
Aroclor 1232	ND	0.0536	µg/g	5/3/01
Aroclor 1242	ND	0.0536	µg/g	5/3/01
Aroclor 1248	ND	0.0536	µg/g	5/3/01
Aroclor 1254	0.791	0.0536	µg/g	5/3/01
Aroclor 1260	0.137	0.0536	µg/g	5/3/01
Total PCB Amount > Reporting Limit	0.928		µg/g	

Note: There were few non-target peaks

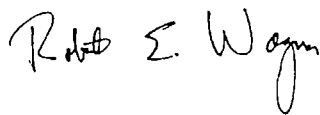
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner, Laboratory Director



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2190 Technology Drive, Schenectady, NY 12308

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV642-14 NEA ID: AE02516
MATRIX: FISH DATE SAMPLED: 04/20/2001 TIME: N/A
DATE RECEIVED: 04/24/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0536	µg/g	5/3/01	
Aroclor 1221	ND	0.0536	µg/g	5/3/01	
Aroclor 1232	ND	0.0536	µg/g	5/3/01	
Aroclor 1242	ND	0.0536	µg/g	5/3/01	
Aroclor 1248	ND	0.0536	µg/g	5/3/01	
Aroclor 1254	0.385	0.0536	µg/g	5/3/01	
Aroclor 1260	0.0613	0.0536	µg/g	5/3/01	
Total PCB Amount > Reporting Limit	0.446		µg/g		

Note: There were few non-target peaks

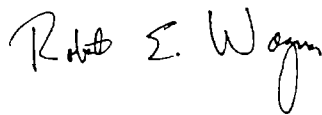
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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2190 Technology Drive, Schenectady, NY 12308

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV642-15 NEA ID: AE02496
MATRIX: FISH DATE SAMPLED: 04/20/2001 TIME: N/A
DATE RECEIVED: 04/24/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0542	µg/g	5/2/01	
Aroclor 1221	ND	0.0542	µg/g	5/2/01	
Aroclor 1232	ND	0.0542	µg/g	5/2/01	
Aroclor 1242	0.0624	0.0542	µg/g	5/2/01	PD
Aroclor 1248	ND	0.0542	µg/g	5/2/01	
Aroclor 1254	0.820	0.0542	µg/g	5/2/01	
Aroclor 1260	0.108	0.0542	µg/g	5/2/01	
Total PCB Amount > Reporting Limit	0.990		µg/g		

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were several non-target peaks.

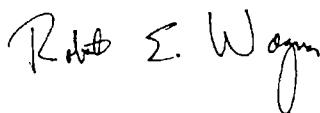
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Robert E. Wagner, Laboratory Director



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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV642-16 NEA ID: AE02497
MATRIX: FISH DATE SAMPLED: 04/20/2001 TIME: N/A
DATE RECEIVED: 04/24/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.219	µg/g	5/2/01	
Aroclor 1221	ND	0.219	µg/g	5/2/01	
Aroclor 1232	ND	0.219	µg/g	5/2/01	
Aroclor 1242	0.541	0.219	µg/g	5/2/01	PD
Aroclor 1248	ND	0.219	µg/g	5/2/01	
Aroclor 1254	3.41	0.219	µg/g	5/2/01	
Aroclor 1260	0.525	0.219	µg/g	5/2/01	
Total PCB Amount > Reporting Limit	4.48		µg/g		

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Robert E. Wagner, Laboratory Director

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2190 Technology Drive, Schenectady, NY 12308

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV642-17 NEA ID: AE02498
MATRIX: FISH DATE SAMPLED: 04/20/2001 TIME: N/A
DATE RECEIVED: 04/24/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.314	µg/g	5/2/01	
Aroclor 1221	ND	0.314	µg/g	5/2/01	
Aroclor 1232	ND	0.314	µg/g	5/2/01	
Aroclor 1242	0.896	0.314	µg/g	5/2/01	PD
Aroclor 1248	ND	0.314	µg/g	5/2/01	
Aroclor 1254	5.32	0.314	µg/g	5/2/01	
Aroclor 1260	0.776	0.314	µg/g	5/2/01	
Total PCB Amount > Reporting Limit	6.99		µg/g		

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

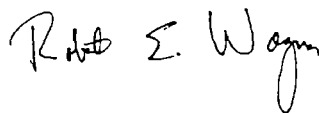
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Robert E. Wagner, Laboratory Director



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2190 Technology Drive, Schenectady, NY 12308

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV642-17 DUP NEA ID: AE02521
MATRIX: FISH DATE SAMPLED: 04/20/2001 TIME: N/A
DATE RECEIVED: 04/24/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.317	µg/g	5/3/01	
Aroclor 1221	ND	0.317	µg/g	5/3/01	
Aroclor 1232	ND	0.317	µg/g	5/3/01	
Aroclor 1242	0.885	0.317	µg/g	5/3/01	PD
Aroclor 1248	ND	0.317	µg/g	5/3/01	
Aroclor 1254	5.52	0.317	µg/g	5/3/01	
Aroclor 1260	0.801	0.317	µg/g	5/3/01	
Total PCB Amount > Reporting Limit	7.21		µg/g		

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

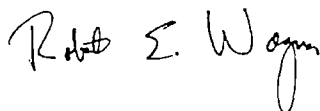
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Robert E. Wagner, Laboratory Director



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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JLM ORR

CUSTOMER ID: SV642-18 NEA ID: AE02499
MATRIX: FISH DATE SAMPLED: 04/20/2001 TIME: N/A
DATE RECEIVED: 04/24/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0517	µg/g	5/2/01	
Aroclor 1221	ND	0.0517	µg/g	5/2/01	
Aroclor 1232	ND	0.0517	µg/g	5/2/01	
Aroclor 1242	0.101	0.0517	µg/g	5/2/01	PD
Aroclor 1248	ND	0.0517	µg/g	5/2/01	
Aroclor 1254	1.12	0.0517	µg/g	5/2/01	
Aroclor 1260	0.148	0.0517	µg/g	5/2/01	
Total PCB Amount > Reporting Limit	1.37		µg/g		

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

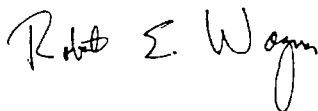
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

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Robert E. Wagner, Laboratory Director



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2190 Technology Drive, Schenectady, NY 12308

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV642-19 NEA ID: AE02500
MATRIX: FISH DATE SAMPLED: 04/20/2001 TIME: N/A
DATE RECEIVED: 04/24/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0524	µg/g	5/2/01	
Aroclor 1221	ND	0.0524	µg/g	5/2/01	
Aroclor 1232	ND	0.0524	µg/g	5/2/01	
Aroclor 1242	ND	0.0524	µg/g	5/2/01	
Aroclor 1248	ND	0.0524	µg/g	5/2/01	
Aroclor 1254	0.480	0.0524	µg/g	5/2/01	
Aroclor 1260	0.0632	0.0524	µg/g	5/2/01	
Total PCB Amount > Reporting Limit	0.543		µg/g		

Note: There were few non-target peaks

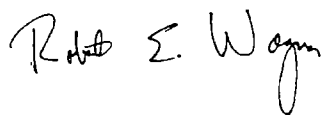
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner, Laboratory Director



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ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV642-20 NEA ID: AE02501
MATRIX: FISH DATE SAMPLED: 04/20/2001 TIME: N/A
DATE RECEIVED: 04/24/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0549	µg/g	5/2/01
Aroclor 1221	ND	0.0549	µg/g	5/2/01
Aroclor 1232	ND	0.0549	µg/g	5/2/01
Aroclor 1242	ND	0.0549	µg/g	5/2/01
Aroclor 1248	ND	0.0549	µg/g	5/2/01
Aroclor 1254	0.0764	0.0549	µg/g	5/2/01
Aroclor 1260	ND	0.0549	µg/g	5/2/01

Total PCB Amount > Reporting Limit 0.0764 µg/g

Note: There were few non-target peaks

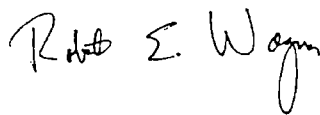
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Northeast Analytical, Inc

Robert E. Wagner Laboratory Director



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2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV642-20 DUP NEA ID: AE02522
MATRIX: FISH DATE SAMPLED: 04/20/2001 TIME: N/A
DATE RECEIVED: 04/24/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0539	µg/g	5/3/01
Aroclor 1221	ND	0 0539	µg/g	5/3/01
Aroclor 1232	ND	0 0539	µg/g	5/3/01
Aroclor 1242	ND	0 0539	µg/g	5/3/01
Aroclor 1248	ND	0 0539	µg/g	5/3/01
Aroclor 1254	0 0712	0 0539	µg/g	5/3/01
Aroclor 1260	ND	0 0539	µg/g	5/3/01

Total PCB Amount > Reporting Limit 0 0712 µg/g

Note There were few non-target peaks

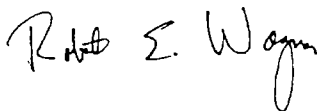
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner, Laboratory Director



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ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV642-21 NEA ID: AE02502
MATRIX: FISH DATE SAMPLED: 04/20/2001 TIME: N/A
DATE RECEIVED: 04/24/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0538	µg/g	5/2/01
Aroclor 1221	ND	0.0538	µg/g	5/2/01
Aroclor 1232	ND	0.0538	µg/g	5/2/01
Aroclor 1242	ND	0.0538	µg/g	5/2/01
Aroclor 1248	ND	0.0538	µg/g	5/2/01
Aroclor 1254	0.124	0.0538	µg/g	5/2/01
Aroclor 1260	ND	0.0538	µg/g	5/2/01
Total PCB Amount > Reporting Limit	0.124	µg/g		

Note: There were few non-target peaks

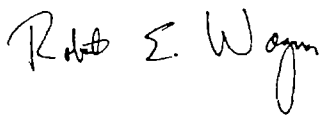
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

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Robert E. Wagner, Laboratory Director



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2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV642-22 NEA ID: AE02823
MATRIX: FISH DATE SAMPLED: 04/25/2001 TIME: N/A
DATE RECEIVED: 04/27/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.101	µg/g	5/13/01	
Aroclor 1221	ND	0.101	µg/g	5/13/01	
Aroclor 1232	ND	0.101	µg/g	5/13/01	
Aroclor 1242	0.451	0.101	µg/g	5/13/01	PD
Aroclor 1248	ND	0.101	µg/g	5/13/01	
Aroclor 1254	2.82	0.101	µg/g	5/13/01	
Aroclor 1260	0.478	0.101	µg/g	5/13/01	
Total PCB Amount > Reporting Limit	3.75		µg/g		

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

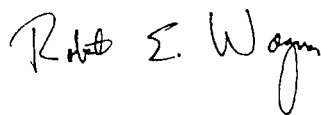
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE

Northeast Analytical, Inc.

Robert E. Wagner, Laboratory Director



NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS

05/16/2001

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV642-23 NEA ID: AE02824
MATRIX : FISH DATE SAMPLED: 04/25/2001 TIME: N/A
DATE RECEIVED: 04/27/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0525	µg/g	5/13/01	
Aroclor 1221	ND	0.0525	µg/g	5/13/01	
Aroclor 1232	ND	0.0525	µg/g	5/13/01	
Aroclor 1242	0.114	0.0525	µg/g	5/13/01	PD
Aroclor 1248	ND	0.0525	µg/g	5/13/01	
Aroclor 1254	1.03	0.0525	µg/g	5/13/01	
Aroclor 1260	0.132	0.0525	µg/g	5/13/01	
Total PCB Amount > Reporting Limit	1.28		µg/g		

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

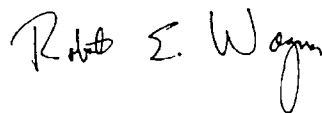
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE

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Robert E. Wagner, Laboratory Director



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ENVIRONMENTAL LAB SERVICES

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(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: SV642-24 NEA ID: AE02825
MATRIX : FISH DATE SAMPLED: 04/25/2001 TIME: N/A
DATE RECEIVED: 04/27/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0 106	µg/g	5/13/01	
Aroclor 1221	ND	0 106	µg/g	5/13/01	
Aroclor 1232	ND	0 106	µg/g	5/13/01	
Aroclor 1242	0 477	0 106	µg/g	5/13/01	PD
Aroclor 1248	ND	0 106	µg/g	5/13/01	
Aroclor 1254	3 05	0 106	µg/g	5/13/01	
Aroclor 1260	0 617	0 106	µg/g	5/13/01	
Total PCB Amount > Reporting Limit	4 14	µg/g			

PD-Aroclor 1242 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1242 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.

Note: There were few non-target peaks.

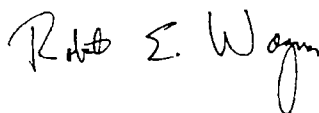
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample.

AUTHORIZED SIGNATURE

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Appendix D
Data Quality

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: RB-8 NEA ID: AE02902
MATRIX: WATER DATE SAMPLED: 04/30/2001 TIME: N/A
DATE RECEIVED: 05/01/2001 TIME: 10:00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0510	µg/L	5/11/01
Aroclor 1221	ND	0.0510	µg/L	5/11/01
Aroclor 1232	ND	0.0510	µg/L	5/11/01
Aroclor 1242	ND	0.0510	µg/L	5/11/01
Aroclor 1248	ND	0.0510	µg/L	5/11/01
Aroclor 1254	ND	0.0510	µg/L	5/11/01
Aroclor 1260	ND	0.0510	µg/L	5/11/01

Total PCB Amount > Reporting Limit 0.00 µg/L

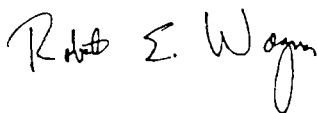
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc

Robert E. Wagner Laboratory Director



NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS

05/14/2001

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: TB-8 NEA ID: AE02903
MATRIX : WATER DATE SAMPLED: 04/30/2001 TIME: N/A
DATE RECEIVED: 05/01/2001 TIME: 10 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

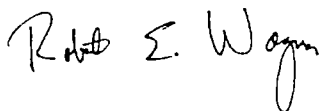
Aroclor 1016	ND	0.0633	µg/L	5/11/01
Aroclor 1221	ND	0.0633	µg/L	5/11/01
Aroclor 1232	ND	0.0633	µg/L	5/11/01
Aroclor 1242	ND	0.0633	µg/L	5/11/01
Aroclor 1248	ND	0.0633	µg/L	5/11/01
Aroclor 1254	ND	0.0633	µg/L	5/11/01
Aroclor 1260	ND	0.0633	µg/L	5/11/01

Total PCB Amount > Reporting Limit 0.00 µg/L

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner, Laboratory Director

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NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: RB-7 NEA ID: AE02819
MATRIX: WATER DATE SAMPLED: 04/26/2001 TIME: N/A
DATE RECEIVED: 04/28/2001 TIME: 11 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0532	µg/L	5/11/01
Aroclor 1221	ND	0.0532	µg/L	5/11/01
Aroclor 1232	ND	0.0532	µg/L	5/11/01
Aroclor 1242	ND	0.0532	µg/L	5/11/01
Aroclor 1248	ND	0.0532	µg/L	5/11/01
Aroclor 1254	ND	0.0532	µg/L	5/11/01
Aroclor 1260	ND	0.0532	µg/L	5/11/01

Total PCB Amount > Reporting Limit 0.00 µg/L

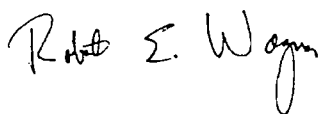
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Northeast Analytical, Inc

Robert E. Wagner, Laboratory Director



NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS

05/14/2001

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: TB-7 NEA ID: AE02820
MATRIX: WATER DATE SAMPLED: 04/26/2001 TIME: N/A
DATE RECEIVED: 04/28/2001 TIME: 11 30 PROJECT: FISH STUDY
SAMPLED BY: J. ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

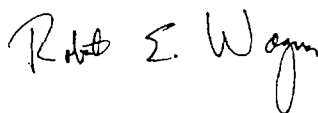
SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0521	µg/L	5/11/01	
Aroclor 1221	ND	0.0521	µg/L	5/11/01	
Aroclor 1232	ND	0.0521	µg/L	5/11/01	
Aroclor 1242	ND	0.0521	µg/L	5/11/01	
Aroclor 1248	ND	0.0521	µg/L	5/11/01	
Aroclor 1254	ND	0.0521	µg/L	5/11/01	
Aroclor 1260	ND	0.0521	µg/L	5/11/01	
Total PCB Amount > Reporting Limit	0.00		µg/L		

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Northeast Analytical, Inc

Robert E. Wagner, Laboratory Director

NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS

05/09/2001

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: TB-6 NEA ID: AE02832
MATRIX: WATER DATE SAMPLED: 04/25/2001 TIME: N/A
DATE RECEIVED: 04/27/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0500	µg/L	5/5/01	
Aroclor 1221	ND	0.0500	µg/L	5/5/01	
Aroclor 1232	ND	0.0500	µg/L	5/5/01	
Aroclor 1242	ND	0.0500	µg/L	5/5/01	
Aroclor 1248	ND	0.0500	µg/L	5/5/01	
Aroclor 1254	ND	0.0500	µg/L	5/5/01	
Aroclor 1260	ND	0.0500	µg/L	5/5/01	
Total PCB Amount > Reporting Limit	0.00	µg/L			

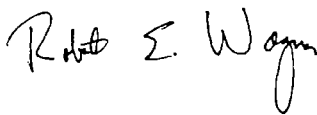
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Northeast Analytical, Inc

Robert E. Wagner, Laboratory Director



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NORTHEAST ANALYTICAL



ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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05/09/2001

ERM- SOUTHEAST, INC.

7106 CROSSROADS BLVD.

SUITE 228

BRENTWOOD, TN 37027

CONTACT: JIM ORR

CUSTOMER ID: RB-6 NEA ID: AE02833
MATRIX: WATER DATE SAMPLED: 04/25/2001 TIME: N/A
DATE RECEIVED: 04/27/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0500	µg/L	5/5/01
Aroclor 1221	ND	0.0500	µg/L	5/5/01
Aroclor 1232	ND	0.0500	µg/L	5/5/01
Aroclor 1242	ND	0.0500	µg/L	5/5/01
Aroclor 1248	ND	0.0500	µg/L	5/5/01
Aroclor 1254	ND	0.0500	µg/L	5/5/01
Aroclor 1260	ND	0.0500	µg/L	5/5/01

Total PCB Amount > Reporting Limit 0.00 µg/L

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

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Robert E. Wagner, Laboratory Director

NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS

05/02/2001

ERM- SOUTHEAST, INC.

7106 CROSSROADS BLVD.

SUITE 228

BRENTWOOD, TN 37027

CONTACT: JIM ORR

CUSTOMER ID: RB-5 NEA ID: AE02519
MATRIX: WATER DATE SAMPLED: 04/20/2001 TIME: N/A
DATE RECEIVED: 04/24/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0500	µg/L	5/1/01	
Aroclor 1221	ND	0.0500	µg/L	5/1/01	
Aroclor 1232	ND	0.0500	µg/L	5/1/01	
Aroclor 1242	ND	0.0500	µg/L	5/1/01	
Aroclor 1248	ND	0.0500	µg/L	5/1/01	
Aroclor 1254	ND	0.0500	µg/L	5/1/01	
Aroclor 1260	ND	0.0500	µg/L	5/1/01	
Total PCB Amount > Reporting Limit	0.00		µg/L		

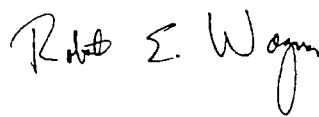
Note: ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner, Laboratory Director



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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: TB-5 NEA ID: AE02520
MATRIX: WATER DATE SAMPLED: 04/20/2001 TIME: N/A
DATE RECEIVED: 04/24/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0500	µg/L	5/1/01
Aroclor 1221	ND	0.0500	µg/L	5/1/01
Aroclor 1232	ND	0.0500	µg/L	5/1/01
Aroclor 1242	ND	0.0500	µg/L	5/1/01
Aroclor 1248	ND	0.0500	µg/L	5/1/01
Aroclor 1254	ND	0.0500	µg/L	5/1/01
Aroclor 1260	ND	0.0500	µg/L	5/1/01

Total PCB Amount > Reporting Limit 0.00 µg/L

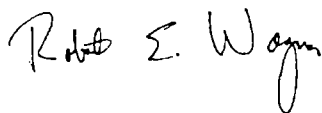
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner Laboratory Director



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2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

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ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: RINSE BLK-04 NEA ID: AE02479
MATRIX : WATER DATE SAMPLED: 04/19/2001 TIME: N/A
DATE RECEIVED: 04/23/2001 TIME: 8 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0500	µg/L	5/1/01	
Aroclor 1221	ND	0.0500	µg/L	5/1/01	
Aroclor 1232	ND	0.0500	µg/L	5/1/01	
Aroclor 1242	ND	0.0500	µg/L	5/1/01	
Aroclor 1248	ND	0.0500	µg/L	5/1/01	
Aroclor 1254	ND	0.0500	µg/L	5/1/01	
Aroclor 1260	ND	0.0500	µg/L	5/1/01	
Total PCB Amount > Reporting Limit	0		µg/L		

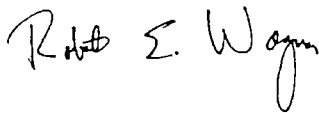
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

AUTHORIZED SIGNATURE

Northeast Analytical, Inc

Robert E. Wagner, Laboratory Director



NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308

(518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS

05/02/2001

ERM- SOUTHEAST, INC.

7106 CROSSROADS BLVD.

SUITE 228

BRENTWOOD, TN 37027

CONTACT: JIM ORR

CUSTOMER ID: TRIP BLK-04 NEA ID: AE02480
MATRIX: WATER DATE SAMPLED: 04/19/2001 TIME: N/A
DATE RECEIVED: 04/23/2001 TIME: 8 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0500	µg/L	5/1/01	
Aroclor 1221	ND	0.0500	µg/L	5/1/01	
Aroclor 1232	ND	0.0500	µg/L	5/1/01	
Aroclor 1242	ND	0.0500	µg/L	5/1/01	
Aroclor 1248	ND	0.0500	µg/L	5/1/01	
Aroclor 1254	ND	0.0500	µg/L	5/1/01	
Aroclor 1260	ND	0.0500	µg/L	5/1/01	
Total PCB Amount > Reporting Limit	0		µg/L		

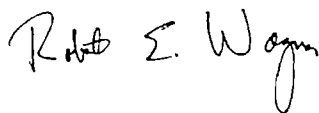
Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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Robert E. Wagner Laboratory Director



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CERTIFICATE OF ANALYSIS

05/02/2001

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: RINSE BLANK-3 NEA ID: AE02441
MATRIX: WATER DATE SAMPLED: 04/18/2001 TIME: N/A
DATE RECEIVED: 04/20/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0500	µg/L	5/1/01	
Aroclor 1221	ND	0.0500	µg/L	5/1/01	
Aroclor 1232	ND	0.0500	µg/L	5/1/01	
Aroclor 1242	ND	0.0500	µg/L	5/1/01	
Aroclor 1248	ND	0.0500	µg/L	5/1/01	
Aroclor 1254	ND	0.0500	µg/L	5/1/01	
Aroclor 1260	ND	0.0500	µg/L	5/1/01	
Total PCB Amount > Reporting Limit	0		µg/L		

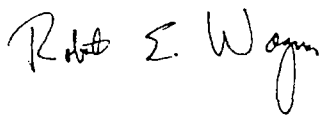
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SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: TRIP BLANK-3 NEA ID: AE02442
MATRIX: WATER DATE SAMPLED: 04/18/2001 TIME: N/A
DATE RECEIVED: 04/20/2001 TIME: 10 30 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
---------------------	---------	-----	-------	-------------	-------

SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0500	µg/L	5/1/01	
Aroclor 1221	ND	0.0500	µg/L	5/1/01	
Aroclor 1232	ND	0.0500	µg/L	5/1/01	
Aroclor 1242	ND	0.0500	µg/L	5/1/01	
Aroclor 1248	ND	0.0500	µg/L	5/1/01	
Aroclor 1254	ND	0.0500	µg/L	5/1/01	
Aroclor 1260	ND	0.0500	µg/L	5/1/01	
Total PCB Amount > Reporting Limit	0		µg/L		

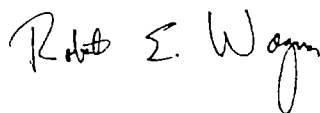
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SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: RINSE BLK-1 NEA ID: AE02334
MATRIX : WATER DATE SAMPLED: 04/17/2001 TIME: N/A
DATE RECEIVED: 04/19/2001 TIME: 11 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0500	µg/L	4/25/01
Aroclor 1221	ND	0.0500	µg/L	4/25/01
Aroclor 1232	ND	0.0500	µg/L	4/25/01
Aroclor 1242	ND	0.0500	µg/L	4/25/01
Aroclor 1248	ND	0.0500	µg/L	4/25/01
Aroclor 1254	ND	0.0500	µg/L	4/25/01
Aroclor 1260	ND	0.0500	µg/L	4/25/01

Total PCB Amount > Reporting Limit 0 µg/L

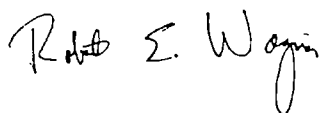
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BRENTWOOD, TN 37027
CONTACT: JIM ORR

CUSTOMER ID: RINSE BLK-2 NEA ID: AE02336
MATRIX: WATER DATE SAMPLED: 04/17/2001 TIME: N/A
DATE RECEIVED: 04/19/2001 TIME: 11 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0500	µg/L	4/25/01
Aroclor 1221	ND	0.0500	µg/L	4/25/01
Aroclor 1232	ND	0.0500	µg/L	4/25/01
Aroclor 1242	ND	0.0500	µg/L	4/25/01
Aroclor 1248	ND	0.0500	µg/L	4/25/01
Aroclor 1254	ND	0.0500	µg/L	4/25/01
Aroclor 1260	ND	0.0500	µg/L	4/25/01
Total PCB Amount > Reporting Limit	0		µg/L	

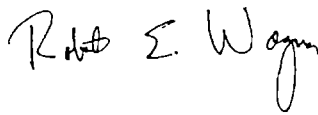
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CONTACT: JIM ORR

CUSTOMER ID: TRIP BLK-1 NEA ID: AE02335
MATRIX: WATER DATE SAMPLED: 04/17/2001 TIME: N/A
DATE RECEIVED: 04/19/2001 TIME: 11 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0500	µg/L	5/1/01
Aroclor 1221	ND	0.0500	µg/L	5/1/01
Aroclor 1232	ND	0.0500	µg/L	5/1/01
Aroclor 1242	ND	0.0500	µg/L	5/1/01
Aroclor 1248	ND	0.0500	µg/L	5/1/01
Aroclor 1254	ND	0.0500	µg/L	5/1/01
Aroclor 1260	ND	0.0500	µg/L	5/1/01

Total PCB Amount > Reporting Limit 0.00 µg/L

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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SUITE 228

BRENTWOOD, TN 37027

CONTACT: JIM ORR

CUSTOMER ID: TRIP BLK-2 NEA ID: AE02337
MATRIX: WATER DATE SAMPLED: 04/17/2001 TIME: N/A
DATE RECEIVED: 04/19/2001 TIME: 11 00 PROJECT: FISH STUDY
SAMPLED BY: J ORR LOCATION: CLEMSON SC
CUSTOMER PO: N/A LAB ELAP #: 11078

PARAMETER PERFORMED	RESULTS	PQL	UNITS	DATE TESTED	FLAGS
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SW-846 Method 8082, Polychlorinated Biphenyls

Aroclor 1016	ND	0.0500	µg/L	5/1/01
Aroclor 1221	ND	0.0500	µg/L	5/1/01
Aroclor 1232	ND	0.0500	µg/L	5/1/01
Aroclor 1242	ND	0.0500	µg/L	5/1/01
Aroclor 1248	ND	0.0500	µg/L	5/1/01
Aroclor 1254	ND	0.0500	µg/L	5/1/01
Aroclor 1260	ND	0.0500	µg/L	5/1/01

Total PCB Amount > Reporting Limit 0.00 µg/L

Note ND (Not Detected) Denotes analyte not detected at a concentration greater than the PQL

PQL (Practical Quantitation Limit) Denotes lowest analyte concentration reportable for the sample

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CONTACT: JIM ORR

LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

LABORATORY MATRIX SPIKE % RECOVERY

AE02297 M	=	14.9 µg/g
AMOUNT SPIKED	=	10.4 µg/g
PERCENT RECOVERY	=	104 %

LABORATORY MATRIX SPIKE DUPLICATE % RECOVERY

AE02297 K	=	15.8 µg/g
AMOUNT SPIKED	=	10.9 µg/g
PERCENT RECOVERY	=	108 %

LABORATORY MATRIX SPIKE DIFFERENCE % RECOVERY

AE02297 M	=	104 %
AE02297 K	=	108 %
PERCENT DIFFERENCE	=	3.77 %

LABORATORY CONTROL SPIKE % RECOVERY

AE02297 L	=	11.9 µg/g
AMOUNT SPIKED	=	10.9 µg/g
PERCENT RECOVERY	=	109 %

LABORATORY METHOD BLANK

AE02297 B	=	< 0.0546 µg/g
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SUITE 228

BRENTWOOD, TN 37027

CONTACT: JIM ORR

LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

LABORATORY MATRIX SPIKE % RECOVERY

AE02322 M	=	11.3 µg/g
AMOUNT SPIKED	=	10.2 µg/g
PERCENT RECOVERY	=	104 %

LABORATORY MATRIX SPIKE DUPLICATE % RECOVERY

AE02322 K	=	11.7 µg/g
AMOUNT SPIKED	=	10.6 µg/g
PERCENT RECOVERY	=	103 %

LABORATORY MATRIX SPIKE DIFFERENCE % RECOVERY

AE02322 M	=	104 %
AE02322 K	=	103 %
PERCENT DIFFERENCE	=	0.966 %

LABORATORY CONTROL SPIKE % RECOVERY

AE02322 L	=	11.1 µg/g
AMOUNT SPIKED	=	10.9 µg/g
PERCENT RECOVERY	=	102 %

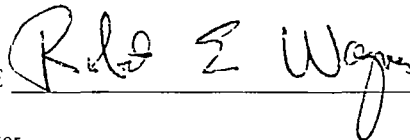
LABORATORY METHOD BLANK

AE02322 B	=	< 0.0515 µg/g
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SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

LABORATORY MATRIX SPIKE % RECOVERY

AE02415 M	=	15.6 µg/g
AMOUNT SPIKED	=	10.8 µg/g
PERCENT RECOVERY	=	93.1 %

LABORATORY MATRIX SPIKE DUPLICATE % RECOVERY

AE02415 K	=	15.4 µg/g
AMOUNT SPIKED	=	10.7 µg/g
PERCENT RECOVERY	=	91.5 %

LABORATORY MATRIX SPIKE DIFFERENCE % RECOVERY

AE02415 M	=	93.1 %
AE02415 K	=	91.5 %
PERCENT DIFFERENCE	=	1.73 %

LABORATORY CONTROL SPIKE % RECOVERY

AE02415 L	=	11.8 µg/g
AMOUNT SPIKED	=	10.9 µg/g
PERCENT RECOVERY	=	108 %

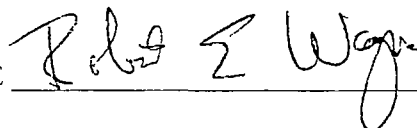
LABORATORY METHOD BLANK

AE02415 B	=	< 0.0549 µg/g
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SUITE 228

BRENTWOOD, TN 37027

CONTACT: JIM ORR

LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

LABORATORY CONTROL SPIKE % RECOVERY

AE02446 L	=	123 µg/g
AMOUNT SPIKED	=	110 µg/g
PERCENT RECOVERY	=	112 %

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AE02446 B	=	< 0.0555 µg/g
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BRENTWOOD, TN 37027

CONTACT: JIM ORR

LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

LABORATORY MATRIX SPIKE % RECOVERY

AE02446 M	=	19.2 µg/g
AMOUNT SPIKED	=	11.0 µg/g
PERCENT RECOVERY	=	111 %

LABORATORY MATRIX SPIKE DUPLICATE % RECOVERY

AE02446 K	=	18.5 µg/g
AMOUNT SPIKED	=	10.7 µg/g
PERCENT RECOVERY	=	108 %

LABORATORY MATRIX SPIKE DIFFERENCE % RECOVERY

AE02446 M	=	111 %
AE02446 K	=	108 %
PERCENT DIFFERENCE	=	2.74 %

LABORATORY CONTROL SPIKE % RECOVERY

AE02446 L	=	12.3 µg/g
AMOUNT SPIKED	=	11.0 µg/g
PERCENT RECOVERY	=	112 %

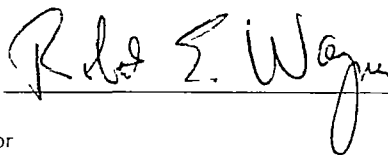
LABORATORY METHOD BLANK

AE02446 B	=	< 0.0555 µg/g
-----------	---	---------------

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SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

LABORATORY MATRIX SPIKE % RECOVERY

AE02462 M	=	12.0 µg/g
AMOUNT SPIKED	=	10.4 µg/g
PERCENT RECOVERY	=	108 %

LABORATORY MATRIX SPIKE DUPLICATE % RECOVERY

AE02462 K	=	12.2 µg/g
AMOUNT SPIKED	=	10.4 µg/g
PERCENT RECOVERY	=	109 %

LABORATORY MATRIX SPIKE DIFFERENCE % RECOVERY

AE02462 M	=	108 %
AE02462 K	=	109 %
PERCENT DIFFERENCE	=	0.922 %

LABORATORY CONTROL SPIKE % RECOVERY

AE02462 L	=	10.9 µg/g
AMOUNT SPIKED	=	10.0 µg/g
PERCENT RECOVERY	=	109 %

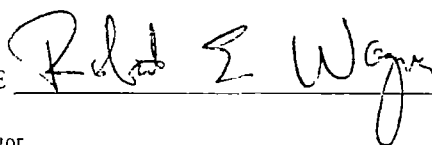
LABORATORY METHOD BLANK

AE02462 B	=	< 0.0522 µg/g
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SUITE 228

BRENTWOOD, TN 37027

CONTACT: JIM ORR

LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

LABORATORY MATRIX SPIKE % RECOVERY

AE02511 M	=	12.5 µg/g
AMOUNT SPIKED	=	10.5 µg/g
PERCENT RECOVERY	=	118 %

LABORATORY MATRIX SPIKE DUPLICATE % RECOVERY

AE02511 K	=	14.0 µg/g
AMOUNT SPIKED	=	10.8 µg/g
PERCENT RECOVERY	=	129 %

LABORATORY MATRIX SPIKE DIFFERENCE % RECOVERY

AE02511 M	=	118 %
AE02511 K	=	129 %
PERCENT DIFFERENCE	=	8.91 %

LABORATORY CONTROL SPIKE % RECOVERY

AE02511 L	=	12.3 µg/g
AMOUNT SPIKED	=	10.7 µg/g
PERCENT RECOVERY	=	116 %

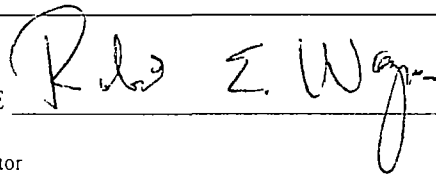
LABORATORY METHOD BLANK

AE02511 B	=	< 0.053 µg/g
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CONTACT: JIM ORR

LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

LABORATORY MATRIX SPIKE % RECOVERY

AE02492 M	=	14.1	µg/g
AMOUNT SPIKED	=	10.4	µg/g
PERCENT RECOVERY	=	127	%

LABORATORY MATRIX SPIKE DUPLICATE % RECOVERY

AE02492 K	=	13.3	µg/g
AMOUNT SPIKED	=	11	µg/g
PERCENT RECOVERY	=	112	%

LABORATORY MATRIX SPIKE DIFFERENCE % RECOVERY

AE02492 M	=	127	%
AE02492 K	=	112	%
PERCENT DIFFERENCE	=	12.6	%

LABORATORY CONTROL SPIKE % RECOVERY

AE02492 L	=	12.5	µg/g
AMOUNT SPIKED	=	10.9	µg/g
PERCENT RECOVERY	=	114	%

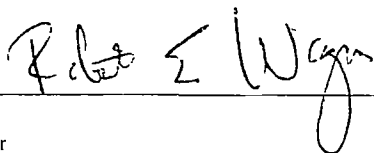
LABORATORY METHOD BLANK

AE02492 B	=	< 0.0524	µg/g
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7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

LABORATORY MATRIX SPIKE % RECOVERY

AE02462 M	=	12.0 µg/g
AMOUNT SPIKED	=	10.4 µg/g
PERCENT RECOVERY	=	108 %

LABORATORY MATRIX SPIKE DUPLICATE % RECOVERY

AE02462 K	=	12.2 µg/g
AMOUNT SPIKED	=	10.4 µg/g
PERCENT RECOVERY	=	109 %

LABORATORY MATRIX SPIKE DIFFERENCE % RECOVERY

AE02462 M	=	108 %
AE02462 K	=	109 %
PERCENT DIFFERENCE	=	0.922 %

LABORATORY CONTROL SPIKE % RECOVERY

AE02462 L	=	10.9 µg/g
AMOUNT SPIKED	=	10.0 µg/g
PERCENT RECOVERY	=	109 %

LABORATORY METHOD BLANK

AE02462 B	=	< 0.0522 µg/g
-----------	---	---------------

AUTHORIZED SIGNATURE

Northeast Analytical Inc

Robert E. Wagner Laboratory Director

NY STATE DEPARTMENT OF HEALTH CERTIFIED LAB

NORTHEAST ANALYTICAL

ENVIRONMENTAL LAB SERVICES

2190 Technology Drive, Schenectady, NY 12308
(518) 346-4592 • FAX (518) 381-6055

CERTIFICATE OF ANALYSIS 05/16/2001

ERM- SOUTHEAST, INC.
7106 CROSSROADS BLVD.
SUITE 228
BRENTWOOD, TN 37027
CONTACT: JIM ORR

LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

LABORATORY MATRIX SPIKE % RECOVERY

AE02828 M	=	11.9 µg/g
AMOUNT SPIKED	=	10.5 µg/g
PERCENT RECOVERY	=	105 %

LABORATORY MATRIX SPIKE DUPLICATE % RECOVERY

AE02828 K	=	12.2 µg/g
AMOUNT SPIKED	=	10.9 µg/g
PERCENT RECOVERY	=	103 %

LABORATORY MATRIX SPIKE DIFFERENCE % RECOVERY

AE02828 M	=	105 %
AE02828 K	=	103 %
PERCENT DIFFERENCE	=	1.92 %

LABORATORY CONTROL SPIKE % RECOVERY

AE02828 L	=	11.0 µg/g
AMOUNT SPIKED	=	10.9 µg/g
PERCENT RECOVERY	=	101 %

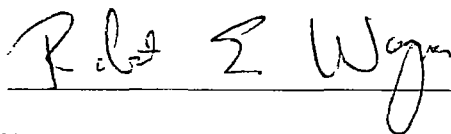
LABORATORY METHOD BLANK

AE02828 B	=	< 0.0526 µg/g
-----------	---	---------------

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BRENTWOOD, TN 37027

CONTACT: JIM ORR

LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

LABORATORY MATRIX SPIKE % RECOVERY

AE02808 M	=	172 µg/g
AMOUNT SPIKED	=	109 µg/g
PERCENT RECOVERY	=	111 %

LABORATORY MATRIX SPIKE DUPLICATE % RECOVERY

AE02808 K	=	153 µg/g
AMOUNT SPIKED	=	103 µg/g
PERCENT RECOVERY	=	98.9 %

LABORATORY MATRIX SPIKE DIFFERENCE % RECOVERY

AE02808 M	=	111 %
AE02808 K	=	98.9 %
PERCENT DIFFERENCE	=	11.5 %

LABORATORY CONTROL SPIKE % RECOVERY

AE02808 L	=	113 µg/g
AMOUNT SPIKED	=	107 µg/g
PERCENT RECOVERY	=	105 %

LABORATORY METHOD BLANK

AE02808 B	=	< 0.0505 µg/g
-----------	---	---------------

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Robert E. Wagner, Laboratory Director

Robert E. Wagner

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CONTACT: JIM ORR

LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

LABORATORY MATRIX SPIKE % RECOVERY

AE02788 M	=	11.2 µg/g
AMOUNT SPIKED	=	12.3 µg/g
PERCENT RECOVERY	=	90.7 %

LABORATORY MATRIX SPIKE DUPLICATE % RECOVERY

AE02788 K	=	11.0 µg/g
AMOUNT SPIKED	=	12.3 µg/g
PERCENT RECOVERY	=	88.5 %

LABORATORY MATRIX SPIKE DIFFERENCE % RECOVERY

AE02788 M	=	90.7 %
AE02788 K	=	88.5 %
PERCENT DIFFERENCE	=	2.46 %

LABORATORY CONTROL SPIKE % RECOVERY

AE02788 L	=	9.42 µg/g
AMOUNT SPIKED	=	10.2 µg/g
PERCENT RECOVERY	=	92.2 %

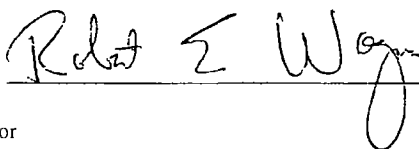
LABORATORY METHOD BLANK

AE02788 B	=	< 0.0554 µg/g
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SUITE 228

BRENTWOOD, TN 37027

CONTACT: JIM ORR

LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

LABORATORY MATRIX SPIKE % RECOVERY

AE03536 M	=	16.1 µg/g
AMOUNT SPIKED	=	10.2 µg/g
PERCENT RECOVERY	=	128 %

LABORATORY MATRIX SPIKE DUPLICATE % RECOVERY

AE03536 K	=	16.6 µg/g
AMOUNT SPIKED	=	10.7 µg/g
PERCENT RECOVERY	=	126 %

LABORATORY MATRIX SPIKE DIFFERENCE % RECOVERY

AE03536 M	=	128 %
AE03536 K	=	126 %
PERCENT DIFFERENCE	=	1.57 %

LABORATORY CONTROL SPIKE % RECOVERY

AE03536 L	=	12.8 µg/g
AMOUNT SPIKED	=	10.9 µg/g
PERCENT RECOVERY	=	118 %

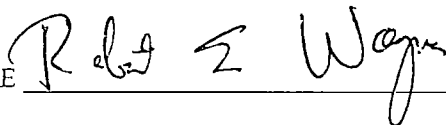
LABORATORY METHOD BLANK

AE03536 B	=	< 0.0555 µg/g
-----------	---	---------------

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CONTACT: JIM ORR

LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

LABORATORY CONTROL SPIKE % RECOVERY

AE02476 L	=	130 µg/g
AMOUNT SPIKED	=	110 µg/g
PERCENT RECOVERY	=	118 %

LABORATORY METHOD BLANK

AE02476 B	=	< 0.0522 µg/g
-----------	---	---------------

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ERM- SOUTHEAST, INC.

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SUITE 228

BRENTWOOD, TN 37027

CONTACT: JIM ORR

LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

LABORATORY MATRIX SPIKE % RECOVERY

AE02304 M	=	15.2 µg/g
AMOUNT SPIKED	=	10.3 µg/g
PERCENT RECOVERY	=	139 % *

* Matrix spike duplicate fails recovery limit of 75-125% This is due to high PCB background existing in sample and/or matrix variability

LABORATORY MATRIX SPIKE DUPLICATE % RECOVERY

AE02304 K	=	16.8 µg/g
AMOUNT SPIKED	=	10.6 µg/g
PERCENT RECOVERY	=	151 % *

* Matrix spike duplicate fails recovery limit of 75-125% This is due to high PCB background existing in sample and/or matrix variability

LABORATORY MATRIX SPIKE DIFFERENCE % RECOVERY

AE02304 M	=	139 %
AE02304 K	=	151 %
PERCENT DIFFERENCE	=	8.28 %

LABORATORY CONTROL SPIKE % RECOVERY

AE02304 L	=	12.5 µg/g
AMOUNT SPIKED	=	11.0 µg/g
PERCENT RECOVERY	=	114 %

LABORATORY METHOD BLANK

AE02304 B	=	< 0.0537 µg/g
-----------	---	---------------

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CHAIN OF CUSTODY RECORD

ERM-SOUTHEAST, INC
7106 Crossroads Blvd
Suite 228
Brentwood TN 37027
(615) 370-0000

PROJECT NAME		PROJECT LOCATION		TELEPHONE NO.		ANALYSES REQUESTED AND REMARKS	
Fish Study		Cape Fear SC		615-373-3350		01050009	
CLIENT REPRESENTATIVE		PROJECT MANAGER					
SAMPLE ID	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (Include Matrix and Point of Sample)	NUMBER OF CONTAINERS	
SV-535017R	4/27		X		Fish AE02894	1	Replace SV 535-017
SV535011R	4/27		X		" AE02895	1	" SV 535-011
SV642-12R	4/27		X		" AE02896	1	Replace SV642-12 / change
SV642-14R	"		X		" AE02897	1	" SV642-14 to SV641-
SV642-26	"		X		" AE02898	1	
SD-535	4/27		X		Sediment AE02899	2	
SD641	↓		X		" AE02900	2	
SD-642	↓		X		" AE02901	2	
FB-8	4/30		X		Water AE02902	1	
FB-8	4/30		X		" AE02903	1	
Relinquished by (Signature)		Date / Time	Received by (Signature)		Relinquished by (Signature)		
		4/30/2000					
Relinquished by (Signature)		Date / Time	Received by (Signature)		Relinquished by (Signature)		
Relinquished by (Signature)		Date / Time	Received for Laboratory by (Signature)		Date / Time		
					8-1-01 / P00		

CHAIN OF CUSTODY RECORD

ERM-SOUTHEAST, INC
7106 Crossroads Blvd
Suite 228
Brentwood, TN 37027
(615) 373-3350

PROJECT NAME						PROJECT LOCATION											
Project #		PROJECT CONTACT		TELEPHONE NO.													
CLIENT REPRESENTATIVE						PROJECT MANAGER											
SAMPLE ID	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (Include Matrix and Point of Sample)	NUMBER OF CONTAINERS		ANALYSES REQUESTED AND REMARKS									
SV-535017R	4/27		X		Fish AE02894	1	1	LOC PCB									
SV535011R	4/27		X		" AE02895	1	1										
SV642-12R	4/27		X		" AE02896	1	1										
SV642-14R	"		X		" AE02897	1	1										
SV642-26	"		X		" AE02898	1	1										
SD535	4/27		X		Sediment AE02899	2	11										
SD641	↓		X		AE02900	2	11										
SD-642	↑		X		AE02901	2	11										
PB-8	4/30		X		Water AE02902	1	1										
PB-8	4/30		X		" AE02903	1	1										
Relinquished by (Signature) [Signature]						Date / Time 4/30/1600	Received by (Signature)										
Relinquished by (Signature)						Date / Time	Received by (Signature)										
Relinquished by (Signature)						Date / Time	Received for Laboratory by (Signature)										
Date / Time 8-1-01 / P.OO.						Remarks											

CHAIN OF CUSTODY RECORD

PAGE 1 OF 2

NORTHEAST ANALYTICAL, INC.

2190 Technology Drive, Schenectady, NY 12308
 Telephone (518) 346-4592 Fax (518) 381-6055
 www.nealab.com information@nealab.com

LR# # 01040147

(NEA USE ONLY)

DISPOSAL REQUIREMENTS: (To be filled in by Client)

- ☐ RETURN TO CLIENT
- ☐ DISPOSAL BY NORTHEAST ANALYTICAL
- ☐ ARCHIVAL BY NORTHEAST ANALYTICAL

Additional charges incurred for disposal (if hazardous) or archival Call for details

CLIENT (REPORTS TO BE SENT TO)

ERMSE

PROJECT/PROJECT NAME

FISH STUDY

PROJECT MANAGER

Jim Oke

LOCATION (CITY/STATE) ADDRESS

PHONE

615-373-3350

SAMPLED BY (Please Print)

Jim Oke

REQUIRED TURN AROUND TIME

STANDARD

SAMPLING FIRM

ERMSE

NAME OF CARRIER (IF USED)

Fed Ex

RESULTS TO BE E-MAILED ☐ E-MAIL ADDRESS

RESULTS TO BE FAXED ☐ FAX #

SAMPLE ID

DATE

TIME

MATRIX

GRAB/COMP

LAB

SAMPLE ID (NEA USE ONLY)

NUMBER OF CONTAINERS

ENTER ANALYSIS AND METHOD NUMBER REQUESTED

PRESERVATIVE CODE:

BOTTLE TYPE

BOTTLE SIZE

PRESERVATIVE KEY

0 - NONE

1 - HCL

2 - HNO3

3 - H2SO4

4 - NaOH

5 - Zn Acetate

6 - MeOH

7 - NaHSO4

8 - Other

REMARKS

NUMBER OF CONTAINERS

8082
24.75

RECEIVED BROKEN OR LEAKING

TEMP

COC TAPE

COC DISCREPANCIES

RECEIVED BY

SIGNATURE

PRINTED NAME

COMPANY

DATE/TIME

PROPERLY PRESERVED

RECD W/ HOLDING TIMES

RECEIVED BY

SIGNATURE

PRINTED NAME

COMPANY

DATE/TIME

OTHER NOTES

RECEIVED BY

SIGNATURE

PRINTED NAME

COMPANY

DATE/TIME

CHAIN OF CUSTODY RECORD

PAGE 2 OF 2

NORTHEAST ANALYTICAL, INC.

2190 Technology Drive, Schenectady, NY 12308
 Telephone (518) 346-4592 Fax (518) 381-6055
 www.nealab.com information@nealab.com

LR# 01040147
 (NEA USE ONLY)

DISPOSAL REQUIREMENTS (To be filled in by Client)

- ☐ RETURN TO CLIENT
☐ DISPOSAL BY NORTHEAST ANALYTICAL
☐ ARCHIVAL BY NORTHEAST ANALYTICAL

Additional charges incurred for disposal (if hazardous) or archival Call for details

CLIENT (REPORTS TO BE SENT TO)

ERMSE

PROJECT/PROJECT NAME

PROJECT MANAGER

FISH STUDY

LOCATION (CITY/STATE) ADDRESS

PHONE

CLEMSON, SC

615-373-3350

SAMPLED BY (Please Print)

Jim Orr

REQUIRED TURN AROUND TIME

SAMPLING FIRM

STANDARD

ERMSE

NAME OF COURIER (IF USED)

FedEx

RESULTS TO BE E-MAILED ☐

E-MAIL ADDRESS

RESULTS TO BE FAXED ☐

FAX #

SAMPLE ID

DATE

TIME

MATRIX

GRAB/COMP

SAMPLE ID (NEA USE ONLY)

NUMBER OF CONTAINERS

2802

ENTER ANALYSIS AND METHOD NUMBER REQUESTED

PRESERVATIVE CODE

BOTTLE TYPE

BOTTLE SIZE

PRESERVATIVE KEY

0 - NONE

1 - HCL

2 - HNO3

3 - H2SO4

4 - NaOH

5 - Zn Acetate

6 - MeOH

7 - NaHSO4

8 - Other

REMARKS

SUBID-25

4-20-01

1

FISH

grab

AE 02818

1 X

SUBID-22-DUP

1

1

FISH

AE 02835

1 X

AMBIENT OR CHILLED

TEMP

COC TAPE

Y N

RECEIVED BROKEN OR LEAKING

Y N

COC DISCREPANCIES

Y N

RELINQUISHED BY

SIGNATURE

RECEIVED BY

SIGNATURE

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DATE/TIME

Note: After the laboratory has received samples and signed the Chain of Custody Record, retain the yellow copy for the Lab files. Send the white copy and express ticket to ERM Southeast at the address shown.

CHAIN OF CUSTODY RECORD

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Suite 228
Brentwood, TN 37027
(615) 373-3350

PROJECT NAME		Fish Study		PROJECT LOCATION		Chattanooga, SC											
PROJECT ID		4577		PROJECT CONTACT		Jim Davis											
CLIENT REPRESENTATIVE		JTO		PROJECT MANAGER		JTO											
TELEPHONE NO		6153733350															
SAMPLE ID	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (Include Matrix and Point of Sample)	NUMBER OF CONTAINERS	A	B	C	D	E	F	G	H	I		
SV107-21	4/26/01			X	Fish	1											
SV107-22						1											
SV106-22						1											
SV106-23						1											
SV106-24						1											
SV106-25						1											
SV106-16R						1											
SV642-22	5/6/11-22					1											
SV642-23						1											
SV642-24						1											
SV642-25						1											
REWRITTEN																	
MANY MISTAKES BY CLIENT																	
Relinquished by (Signature)		Date / Time		Received by (Signature)		Date / Time		Relinquished by (Signature)		Date / Time		Received by (Signature)		Date / Time		Received by (Signature)	
James C. Davis		4/27/01 1000		James C. Davis		4/28/2001 11:30											
Relinquished by (Signature)		Date / Time		Received for Laboratory by (Signature)		Date / Time		Relinquished by (Signature)		Date / Time		Remarks		SAMPLERS (Signature)			
				James C. Davis		4-3001 0820											

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Brentwood, TN 37027
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PROJECT NAME		PROJECT LOCATION		PROJECT NO.		PROJECT MANAGER		TELEPHONE NO.	
Fresh Start		Chickasaw SC		6153733350		70		01040146	
PROJECT NO. 4517		PROJECT CONT. Jim Davis		PROJECT MANAGER 70		TELEPHONE NO. 6153733350		ANALYSES REQUESTED AND REMARKS	
SAMPLE ID	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (Include Matrix and Point of Sample)	NUMBER OF CONTAINERS		A B C D E F G H I	
SD-001	4/24/00	1120	X		Sediment AE02798	2	11		
SD-000		1120			AE02799	1	11		
SD-002		1210			AE02800	1	11		
SD-003		1240			AE02801	1	11		
SD-004		1300			AE02802	1	11		
SD-005		1320			AE02803	1	11		
SD-006		1345			AE02804	1	11		
SD-106		1345			AE02805	1	11		
SD-532		1445			AE02806	1	11		
SD-061	4/26				AE02807	1	11		
Relinquished by (Signature)		Date / Time		Received by (Signature)		Date / Time		Received by (Signature)	
Jim Davis		4/29/00		Jim Davis		11:30			
Relinquished by (Signature)		Date / Time		Received by (Signature)		Date / Time		Received by (Signature)	
Relinquished by (Signature)		Date / Time		Received for Laboratory by (Signature)		Date / Time		Remarks	
				Jim Davis		4:30 01 0820			
SAMPLERS (Signature)									

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(615) 373-3350

PROJECT NAME		PROJECT LOCATION		PROJECT CONTACT		TELEPHONE NO.												
Fish Study		Dewon SC		Steve Orr		615 373 3350												
CLIENT REPRESENTATIVE				PROJECT MANAGER														
78				70														
SAMPLE ID	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (Include Matrix and Point of Sample)		NUMBER OF CONTAINERS	ANALYSES REQUESTED AND REMARKS										
SD-007	4/24/01	1300	X		Sediment		2	1	Road cut									
SD-008	1	1315	1		AE02788		2	1										
SD-009	1	1330			AE02789		2	1										
SD-009	1	1330			AE02790		2	1										
SD-010	1	1340			AE02791		2	1										
SD-011	1	1410			AE02792		2	1	ReBus + Trac									
SD-012	1	1420			AE02793		2	1										
SD-013	1	1445			AE02794		2	1										
SD-014	1	1450			AE02795		2	1										
SD-015	1	1530			AE02796		2	1										
					AE02797		2	1										
Relinquished by (Signature)		Date / Time		Received by (Signature)		Relinquished by (Signature)		Date / Time		Received by (Signature)		Date / Time		Received by (Signature)				
K. R. O. M.		4/26/01 1000																
Relinquished by (Signature)		Date / Time		Received by (Signature)		Relinquished by (Signature)		Date / Time		Received by (Signature)		Date / Time		Received by (Signature)				
Relinquished by (Signature)		Date / Time		Received for Laboratory by (Signature)		Date / Time		Remarks										
				A. A. Ricci		4-27-01 1030		T. Y. O. C.										

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CHAIN OF CUSTODY RECORD

ERM-SOUTHEAST, INC
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(615) 373-3350

PROJECT NAME		Fish Study		PROJECT LOCATION		Clemson SC	
PROJECT NO		4257		PROJECT CONTACT		Jim Orr	
CLIENT REPRESENTATIVE		J. Orr		PROJECT MANAGER		JTO	
TELEPHONE NO		615 943 3350					
SAMPLE ID	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (Include Matrix and Point of Sample)	NUMBER OF CONTAINERS	ANALYSES REQUESTED AND REMARKS
SV107-20	4/25/01		X		Fish	1	
SV106-21			X			1	P.B.
SV641-22			X			1	
SV641-23			X			1	
SV641-24			X			1	
SV642-17			X			1	
SV642-18			X			1	
SV642-19			X			1	Duplicate
SV642-20			X			1	
SV642-21			X			1	
SV642-06R			X			1	
SV642-06	4/27		X			1	
TP-6					Water	1	
RB-6					"	1	
Relinquished by (Signature)		James P. Orr		Date / Time		4/26/01 1000	
Relinquished by (Signature)				Date / Time			
Relinquished by (Signature)				Date / Time			
Received for Laboratory by (Signature)		Katie Ricci		Date / Time		4/27/01 1030	
Relinquished by (Signature)				Date / Time			
Relinquished by (Signature)				Date / Time			
Remarks		7.40C		SAMPLERS (Signature)			

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CHAIN OF CUSTODY RECORD

ERM-SOUTHEAST, INC
7106 Crossroads Blvd
Suite 228
Brentwood, TN 37027
(615) 373-3350

PROJECT NAME: Fish Study PROJECT CONTACT: Stephen SC
PROJECT NO: 9517 PROJECT CONTAINER: LimOr TELEPHONE NO: 615 373 3350

CLIENT REPRESENTATIVE

PROJECT MANAGER

01050009

ANALYSES REQUESTED AND REMARKS

SAMPLE ID DATE TIME COMP GRAB SAMPLE DESCRIPTION (Include Matrix and Point of Sample)

NUMBER OF CONTAINERS

LOC PCB

ANALYSES REQUESTED AND REMARKS

SV-535017 4/27 X Fish AE02894 1 1 Replace SV 535-017

SV35011R 4/27 X " AE02895 1 1 " SV 535-011

SV642-12R 4/27 X " AE02896 1 1 Replace SV642-12 (change " SV642-14 to SV644-)

SV642-14R " X " AE02897 1 1

SV642-26 " X " AE02898 1 1

SD535 4/27 X Sediment AE02899 2 1 1

SD641 1 X AE02900 2 1 1

SD-642 1 X AE02901 2 1 1

FB-8 4/30 X Water AE02902 1 1

FB-8 4/30 X " AE02903 1 1

Relinquished by (Signature) [Signature] Date / Time 4/30/16 00 Received by (Signature) [Signature]

Relinquished by (Signature) [Signature] Date / Time 4/30/16 00 Received by (Signature) [Signature]

Relinquished by (Signature) [Signature] Date / Time 4/30/16 00 Received by (Signature) [Signature]

Relinquished by (Signature) [Signature] Date / Time 4/30/16 00 Received by (Signature) [Signature]

Relinquished by (Signature) [Signature] Date / Time 4/30/16 00 Received by (Signature) [Signature]

Relinquished by (Signature) [Signature] Date / Time 4/30/16 00 Received by (Signature) [Signature]

Relinquished by (Signature) [Signature] Date / Time 4/30/16 00 Received by (Signature) [Signature]

Relinquished by (Signature) [Signature] Date / Time 4/30/16 00 Received by (Signature) [Signature]

Relinquished by (Signature) [Signature] Date / Time 4/30/16 00 Received by (Signature) [Signature]

Relinquished by (Signature) [Signature] Date / Time 4/30/16 00 Received by (Signature) [Signature]

Relinquished by (Signature) [Signature] Date / Time 4/30/16 00 Received by (Signature) [Signature]

Relinquished by (Signature) [Signature] Date / Time 4/30/16 00 Received by (Signature) [Signature]

Relinquished by (Signature) [Signature] Date / Time 4/30/16 00 Received by (Signature) [Signature]

White copy return yellow copy to lab, pink copy to sampler

SAMPLERS (Signature)

ERM-SOUTHEAST, INC.
7106 Cromsroads Blvd

CHAIN OF CUSTODY RECORD

Brentwood, TN 37027

(615) 373-3350

PROJECT NAME		PROJECT CONTACT		PROJECT LOCATION		PROJECT MANAGER		TELEPHONE NO.		ANALYSES REQUESTED AND REMARKS	
Fish Study		Jim Davis		Clemson SC		Jim Davis		6153733350		01040147	
CLIENT REPRESENTATIVE		JO		PROJECT MANAGER		JO					
SAMPLE ID	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (Include Matrix and Point of Sample)		NUMBER OF CONTAINERS				
SV107-21	4/26/11			X	Fish		1		PCB'S		
SV107-22							1				
SV106-23							1				
SV106-24							1				
SV106-25							1				
SV106-16R							1		Hold		
SV642-22	5/6/11	22					1		Replaces SV106-17		
SV642-23							1		Replaces SV106-16		
SV642-24							1				
SV642-25							1				
2B-7							1		REMARKS		
1B-7							1		B/C TOO MANY MISTAKES BY CLIENT		
Relinquished by (Signature)		Date / Time		Received by (Signature)		Date / Time		Relinquished by (Signature)		Date / Time	
James R. Davis		4/27/11 1000		James R. Davis		4/28/11 11:30					
Relinquished by (Signature)		Date / Time		Received by (Signature)		Date / Time		Relinquished by (Signature)		Date / Time	
Relinquished by (Signature)		Date / Time		Received by (Signature)		Date / Time		Relinquished by (Signature)		Date / Time	

Note: After the laboratory has received samples and signed the Chain of Custody Record, retain the yellow copy for the Lab files. Send the white copy and express ticket to ERM-Southeast at the address shown.

ERM-SOUTHEAST, INC.

7106 Crossroads Blvd

Suite 228

Brentwood, TN 37027

(615) 373-3350

CHAIN OF CUSTODY RECORD

PROJECT NAME		Fish Study		PROJECT LOCATION		Chickadee SC	
PROJECT NO		4517		PROJECT CONTACT		Lindor	
CLIENT REPRESENTATIVE				TELEPHONE NO		6153733350	
PROJECT MANAGER				ANALYSES REQUESTED AND REMARKS		01050009	
SAMPLE ID	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (Include Matrix and Point of Sample)	NUMBER OF CONTAINERS	A B C D E F G H I
SV-535017	4/27		X		Fish AE02894	1	
SV35011R	4/27		X		" AE02895	1	
SV642-12R	4/27		X		" AE02896	1	
SV642-14R	"		X		" AE02897	1	
SV642-26	"		X		" AE02898	1	
SD-535	4/27		X		Sediment AE02899	2	
SD-641	↓		X		" AE02900	2	
SD-642	↓		X		" AE02901	2	
RB-8	4/30		X		Water AE02902	1	
FB-8	4/30		X		" AE02903	1	
Relinquished by (Signature)		Date/Time		Received by (Signature)		Relinquished by (Signature)	
[Signature]		4/30/00		[Signature]		[Signature]	
Relinquished by (Signature)		Date/Time		Received by (Signature)		Relinquished by (Signature)	
[Signature]		[Signature]		[Signature]		[Signature]	
Relinquished by (Signature)		Date/Time		Received for Laboratory by (Signature)		Date/Time	
[Signature]		[Signature]		[Signature]		8-1-01	
Remarks		SAMPLERS (Signature)		SAMPLERS (Signature)		SAMPLERS (Signature)	

PAGE 1 OF 2

2190 Technology Drive, Schenectady, NY 12308
Telephone (518) 346-4592 Fax (518) 381-6055
www.nealab.com information@nealab.com

information@nealab.com

LRF # 01040147
(NEA USE ONLY)

DISPOSAL REQUIREMENTS. (To be filled in by Client)

RETURN TO CLIENT

DISPOSAL BY NORTHEAST ANALYTICAL

ARCHIVAL BY NORTHEAST ANALYTICAL

Additional charges incurred for disposal (if hazardous) or archival Call for details

CLIENT (REPORTS TO BE SENT TO)										PROJECT/PROJECT NAME									
FARMSE										FISH STUDY									
PROJECT MANAGER Jim ORR										LOCATION (CITY/STATE) ADDRESS NEWTON, ST									
PHONE 615-373-3350										REQUIRED TURN AROUND TIME									
SAMPLED BY (Please Print) Jim ORR										STANDARD									
SAMPLING FIRM FARMSE										NAME OF COURIER (IF USED) FedEx									
RESULTS TO BE E-MAILED <input type="checkbox"/>					E-MAIL ADDRESS					LAB									
RESULTS TO BE FAXED <input type="checkbox"/>					FAX #					SAMPLE ID (NEA USE ONLY)									
SAMPLE ID		DATE		TIME		MATRIX		GRAB/COMP											
SV107-21		4/26-01		---		FISH		grab		AE02808									
SV107-22										AE02809									
SV106-22										AE02810									
SV106-23										AE02811									
SV106-24										AE02812									
SV106-25										AE02813									
SV106-16R										AE02814									
SV1041-22										AE02815									
SV1041-23										AE02816									
SV1041-24										AE02817									
AMBIENT OR CHILLED					TEMP					COC TAPE									
RECEIVED BROKEN OR LEAKING					Y N					COC DISCREPANCIES									
RELINQUISHED BY					Y N					Y N									
SIGNATURE					SIGNATURE					SIGNATURE									
PRINTED NAME					PRINTED NAME					PRINTED NAME									
COMPANY					COMPANY					COMPANY									
DATE/TIME					DATE/TIME					DATE/TIME									

ENTER ANALYSIS AND METHOD NUMBER REQUESTED									
PRESERVATIVE CODE:		BOTTLE TYPE		BOTTLE SIZE		NUMBER OF CONTAINERS		PRESERVATIVE KEY	
8082		250ml						0 - NONE	
								1 - HCL	
								2 - HNO3	
								3 - H2SO4	
								4 - NaOH	
								5 - Zn Acetate	
								6 - MeOH	
								7 - NaHSO4	
								8 - Other	

REMARKS				

RECEIVED BY				
SIGNATURE				
PRINTED NAME				
COMPANY				
DATE/TIME				

NORTHEAST ANALYTICAL, INC.

information@nealab.com

PAGE 2 OF 2

LR# 01640147

(NEA USE ONLY)

DISPOSAL REQUIREMENTS. (To be filled in by Client)

- RETURN TO CLIENT
DISPOSAL BY NORTHEAST ANALYTICAL
ARCHIVAL BY NORTHEAST ANALYTICAL

CLIENT (REPORTS TO BE SENT TO)										PROJECT/PROJECT NAME									
ERMSE										FISH STUDY									
PROJECT MANAGER										LOCATION (CITY/STATE) ADDRESS									
Jim Orr										Clemson, SC									
PHONE										REQUIRED TURN AROUND TIME									
615-373-3350										STANDARD									
SAMPLING FIRM										NAME OF COURIER (IF USED)									
ERMSE										FedEx									
RESULTS TO BE E-MAILED										E-MAIL ADDRESS									
RESULTS TO BE FAXED										FAX #									
SAMPLE ID										DATE									
SVL041-25										4/26/01									
DATE										TIME									
MATRIX										GRAB/COMP									
FISH										AE 02818									
AE 02819										AE 02820									
AE 02821										AE 02835									
SVL041-22 DUP										FISH									
TEMP										COO TAPE									
Y										N									
COO DISCREPANCIES										Y									
N										N									
RECEIVED BY										SIGNATURE									
PRINTED NAME										PRINTED NAME									
COMPANY										COMPANY									
DATE/TIME										DATE/TIME									
NUMBER OF CONTAINERS										PRESERVATIVE CODE:									
8082										BOTTLE TYPE									
										BOTTLE SIZE									
										PRESERVATIVE KEY									
										0 - NONE									
										1 - HCL									
										2 - HNO3									
										3 - H2SO4									
										4 - NaOH									
										5 - Zn Acetate									
										6 - MeOH									
										7 - NaHSO4									
										8 - Other									
REMARKS										RECEIVED BY									
										SIGNATURE									
										PRINTED NAME									
										COMPANY									
										DATE/TIME									

CHAIN OF CUSTODY RECORD

(615) 373-3350

PROJECT NAME		PROJECT LOCATION		ANALYSES REQUESTED AND REMARKS																
PROJECT NO.	PROJECT CONTACT	PHONE NO.	PROJECT MANAGER																	
SAMPLE ID	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (Include Matrix and Point of Sample)		NUMBER OF CONTAINERS													
SD-001	4/24/00	1200	X		Sediment AE02798		2	11												
SD-002		1210			AE02799		1	11												
SD-003		1240			AE02800		1	11												
SD-004		1300			AE02801		1	11												
SD-005		1320			AE02802		1	11												
SD-006		1345			AE02803		1	11												
SD-006		1345			AE02804		1	11												
SD-006		1345			AE02805		1	11												
SD-006		1345			AE02806		1	11												
SD-006		1345			AE02807		1	11												

Note: After the laboratory has received samples and signed the Chain of Custody Record, retain the yellow copy for the Lab files. Send the white copy and express ticket to ERM-Southeast at the address shown.

CHAIN OF CUSTODY RECORD

ERM-SOUTHEAST, INC.
7106 Crossroads Blvd
Suite 228
Brentwood, TN 37027
(615) 373-3350

PROJECT NAME Fish Study PROJECT LOCATION Chickamauga SC
PROJECT NO 9579 PROJECT CONTACT Lim Or TELEPHONE NO 615 373 3350
CLIENT REPRESENTATIVE PROJECT MANAGER

SAMPLE ID DATE TIME COMP GRAB SAMPLE DESCRIPTION (Include Matrix and Point of Sample)

NUMBER OF CONTAINERS

A B C D E F G H I
1000

ANALYSES REQUESTED AND REMARKS

01050009

SV-5350172 4/27 Fish Fish AE02894 1 1 Replace SV 535-017
SV35011R 4/27 " AE02895 1 1 " SV 535-011
SV642-12R 4/27 " AE02896 1 1 Replace SV642-12 (change
SV642-14R " AE02897 1 1 " SV642-14 to SV641-
SV642-26 " AE02898 1 1

SD-535 4/27 Sediment AE02899 2 1 1
SD-641 1 AE02900 2 1 1
SD-642 1 AE02901 2 1 1

RB-8 4/30 Water AE02902 1 1
FB-8 4/30 " AE02903 1 1 " Sample 0 13.0°C

Relinquished by (Signature) [Signature] Date / Time 4/30/00 Received by (Signature) Relinquished by (Signature) Date / Time Received by (Signature)

Relinquished by (Signature) Date / Time Received by (Signature) Relinquished by (Signature) Date / Time Received by (Signature)

Relinquished by (Signature) Date / Time Received by (Signature) Relinquished by (Signature) Date / Time Received by (Signature)

White copy, turn in to ERM, yellow copy to lab, pink copy to sampler

SAMPLERS (Signature)

Note: After the laboratory has received samples and signed the Chain of Custody Record, retain the yellow copy for the Lab files. Send the white copy and express ticket to ERM, Southeast at the address shown.

CHAIN OF CUSTODY RECORD

ERM-SOUTHEAST, INC.
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Suite 228
Brentwood, TN 37027
(615) 373-3350

PROJECT NAME Frish Study		PROJECT LOCATION Johnson St																											
PROJECT ID 4577	PROJECT CONTACT Jim Orr	TELEPHONE NO. 615 373 3350																											
CLIENT REPRESENTATIVE 78		PROJECT MANAGER 70																											
SAMPLE ID	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (Include Matrix and Point of Sample)	NUMBER OF CONTAINERS	ANALYSES REQUESTED AND REMARKS																						
SD-007	4/14/01	1000	X		Sediment	AE02788	2	1	1	ReBus + Trac																			
SD-008	1	1315				AE02789	2	1	1																				
SD-009	1	1330				AE02790	2	1	1																				
SD-0091	1					AE02791	2	1	1																				
SD-010	1	1350				AE02792	2	1	1																				
SD-011	1	1410				AE02793	2	1	1																				
SD-012	1	1420				AE02794	2	1	1																				
SD-013	1	1435				AE02795	2	1	1																				
SD-014	1	1520				AE02796	2	1	1																				
SD-015	1	1530				AE02797	2	1	1																				
Relinquished by (Signature) Jim Orr							Date / Time 4/16/01 1000	Received by (Signature)							Relinquished by (Signature)							Date / Time	Received by (Signature)						
Relinquished by (Signature)							Date / Time	Received by (Signature)							Relinquished by (Signature)							Date / Time	Received by (Signature)						
Relinquished by (Signature)							Date / Time	Received for Laboratory by (Signature) Anna Ricci							Date / Time 4-27-01 1030							Remarks T.40C							
SAMPLERS (Signature)																													

White: Return to ERM, yellow copy to lab, pink copy to sampler

CHAIN OF CUSTODY RECORD

PAGE 1 OF 2

NORTHEAST ANALYTICAL, INC.

2190 Technology Drive, Schenectady, NY 12308
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www.nealab.com information@nealab.com

LR# # 01040148
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DISPOSAL REQUIREMENTS (To be filled in by Client)

- ☐ RETURN TO CLIENT
☐ DISPOSAL BY NORTHEAST ANALYTICAL
☐ ARCHIVAL BY NORTHEAST ANALYTICAL
Additional charges incurred for disposal (if hazardous) or archival Call for details

CLIENT (REPORTS TO BE SENT TO)

ERMSE

PROJECT MANAGER

Jim Ore

PHONE

615-373-3350

SAMPLED BY (Please Print)

Jim Ore

SAMPLING FIRM

ERMSE

PROJECT/PROJECT NAME

FISH STUDY

LOCATION (CITY/STATE) ADDRESS

CLEMSON, SC

REQUIRED TURN AROUND TIME

STANDARDS

NAME OF COURIER (IF USED)

FedEx

RESULTS TO BE E-MAILED

RESULTS TO BE FAXED

SAMPLE ID

DATE

TIME

MATRIX

GRAB/COMP

LAB

SAMPLE ID (NEA USE ONLY)

NUMBER OF CONTAINERS

ENTER ANALYSIS AND METHOD NUMBER REQUESTED

PRESERVATIVE CODE:

BOTTLE TYPE

BOTTLE SIZE

PRESERVATIVE KEY

0 - NONE

1 - HCL

2 - HNO3

3 - H2SO4

4 - NaOH

5 - Zn Acetate

6 - MeOH

7 - NaHSO4

8 - Other

REMARKS

AMBIENT OR CHILLED

RECEIVED BROKEN OR LEAKING

RELINQUISHED BY

SIGNATURE

PRINTED NAME

COMPANY

DATE/TIME

DATE/TIME

TEMP

Y N

RECEIVED BY

SIGNATURE

PRINTED NAME

COMPANY

DATE/TIME

DATE/TIME

COC TAPE

Y N

COC DISCREPANCIES

Y N

RELINQUISHED BY

SIGNATURE

PRINTED NAME

COMPANY

PROPERLY PRESERVED

Y N

RECD W/ HOLDING TIMES

Y N

RELINQUISHED BY

SIGNATURE

PRINTED NAME

COMPANY

OTHER NOTES

RELINQUISHED BY

SIGNATURE

PRINTED NAME

COMPANY

DATE/TIME

DATE/TIME

RELINQUISHED BY

SIGNATURE

PRINTED NAME

COMPANY

DATE/TIME

DATE/TIME

RELINQUISHED BY

SIGNATURE

PRINTED NAME

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RELINQUISHED BY

SIGNATURE

PRINTED NAME

COMPANY

DATE/TIME

DATE/TIME

RELINQUISHED BY

SIGNATURE

PRINTED NAME

COMPANY

DATE/TIME

DATE/TIME

CHAIN OF CUSTODY RECORD

PAGE 2 OF 2

NORTHEAST ANALYTICAL, INC.

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DISPOSAL REQUIREMENTS (To be filled in by Client)

- ☐ RETURN TO CLIENT
- ☐ DISPOSAL BY NORTHEAST ANALYTICAL
- ☐ ARCHIVAL BY NORTHEAST ANALYTICAL

Additional charges incurred for disposal (if hazardous) or archival Call for details

CLIENT (REPORTS TO BE SENT TO)

ERMSE

PROJECT/PROJECT NAME

FISH STUDY

PROJECT MANAGER

Jim Orr

LOCATION (CITY/STATE) ADDRESS

CLEMSON, SC

PHONE

615-373-3350

SAMPLED BY (Please Print)

Jim Orr

REQUIRED TURN AROUND TIME

STANDARD

SAMPLING FIRM

ERMSE

NAME OF CARRIER (IF USED)

Fed Ex

RESULTS TO BE E-MAILED

E-MAIL ADDRESS

RESULTS TO BE FAXED

FAX #

SAMPLE ID

DATE

TIME

MATRIX

GRAB/COMP

LAB SAMPLE ID (NEA USE ONLY)

NUMBER OF CONTAINERS

8082

ENTER ANALYSIS AND METHOD NUMBER REQUESTED

PRESERVATIVE CODE:

BOTTLE TYPE

BOTTLE SIZE

PRESERVATIVE KEY

- 0 - NONE
- 1 - HCL
- 2 - HNO3
- 3 - H2SO4
- 4 - NaOH
- 5 - Zn Acetate
- 6 - MeOH
- 7 - NaHSO4
- 8 - Other

REMARKS

SV041-04R

14501

FISH

grab

AE02831

1

X

SV041-27

Y

FISH

grab

AE02834

1

X

SV041-17 DUP

u

FISH

grab

AE02836

1

X

AMBIENT OR CHILLED

TEMP

RECEIVED BROKEN OR LEAKING

Y

N

COC TAPE

Y

N

COC DISCREPANCIES

Y

N

PROPERTY PRESERVED

Y

N

RELINQUISHED BY

SIGNATURE

RECEIVED BY

SIGNATURE

RELINQUISHED BY

PRINTED NAME

PRINTED NAME

PRINTED NAME

PRINTED NAME

PRINTED NAME

PRINTED NAME

PRINTED NAME

PRINTED NAME

COMPANY

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COMPANY

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COMPANY

COMPANY

COMPANY

DATE/TIME

DATE/TIME

DATE/TIME

DATE/TIME

DATE/TIME

DATE/TIME

DATE/TIME

DATE/TIME

CHAIN OF CUSTODY RECORD

PROJECT NAME		PROJECT CONTACT		PROJECT MANAGER		TELEPHONE NO.		NUMBER OF CONTAINERS		ANALYSES REQUESTED AND REMARKS													
PROJECT ID		PROJECT DATE		PROJECT TIME		PROJECT COMP		PROJECT GRAB		SAMPLE DESCRIPTION (Include Matrix and Point of Sample)		NUMBER OF CONTAINERS		ANALYSES REQUESTED AND REMARKS									
SAMPLE ID	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (Include Matrix and Point of Sample)		NUMBER OF CONTAINERS		ANALYSES REQUESTED AND REMARKS														
SV642-15	4/20/01		X		Fish AE02517		1		PCB														
SV642-16	4/20		X		Fish AE02518		1																
EB-S	4/20		X		Squid AE02519		1																
TR-S	4/20		X		Squid AE02520		1																
SV641-17	4/20				Fish AE02521		1																
SV641-20	4/20				Fish AE02522		1																
SV642-10	4/20				Fish AE02523		1																
Relinquished by (Signature)												Date / Time		Received by (Signature)		Relinquished by (Signature)		Date / Time		Received by (Signature)			
[Signature]												4/23/01 1700		[Signature]									
Relinquished by (Signature)												Date / Time		Received by (Signature)		Relinquished by (Signature)		Date / Time		Received by (Signature)			
[Signature]														[Signature]									
Relinquished by (Signature)												Date / Time		Received for Laboratory by (Signature)		Date / Time		Remarks		SAMPLERS (Signature)			
[Signature]														[Signature]		4/24/01 1030		4.0°C		[Signature]			

Note: After the laboratory has received samples and signed the Chain of Custody Record, retain the yellow copy for the Lab files. Send the white copy and express ticket to ERM Southeast at the address shown.

CHAIN OF CUSTODY RECORD

Page 2 of 3

ERM SOUTHEAST, INC
7106 Crossroads Blvd
Suite 228
Brentwood, TN 37027
(615) 373 3350

PROJECT NAME		Fish Study		PROJECT LOCATION		Cannon SC					
PROJECT NO		4517		PROJECT CONTACT		Jim Orr					
CLIENT REPRESENTATIVE		DVO		PROJECT MANAGER		DVO					
TELEPHONE NO		615 373 3350									
SAMPLE ID	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (Include Matrix and Point of Sample)	NUMBER OF CONTAINERS	A B C D E F G H I				ANALYSES REQUESTED AND REMARKS 61040103
SV642-01	4/20		X		FEA AE02502	1					
SV642-01*					AE02503	1					
SV642-03*					AE02504	1					
SV642-04*					AE02505	1					
SV642-05*					AE02506	1					
SV642-06					AE02507	1					
SV642-07*					AE02508	1					
SV642-08*					AE02509	1					
SV642-09*					AE02510	1					
SV642-10*					AE02511	1					
SV642-11*					AE02512	1					
SV642-12*					AE02513	1					
SV642-13*					AE02514	1					
SV642-14*					AE02515	1					
SV642-14*					AE02516	1					
Relinquished by (Signature)		Date / Time		Received by (Signature)		Relinquished by (Signature)		Date / Time		Received by (Signature)	
Steve Rellum		4/23/01 1700									
Relinquished by (Signature)		Date / Time		Received by (Signature)		Relinquished by (Signature)		Date / Time		Received by (Signature)	
Relinquished by (Signature)		Date / Time		Received for Laboratory by (Signature)		Date / Time		Remarks		SAMPLERS (Signature)	
				Rueck, Rice		4-24-01 1030		4.0°C			

Note: After the laboratory has received samples and signed the Chain of Custody Record, retain the yellow copy for the Lab files. Send the white copy and express ticket to ERM-Southeast at the address shown

CHAIN OF CUSTODY RECORD

Page 1 of 3

ERM-SOUTHEAST, INC.
7106 Crossroads Blvd
Suite 228
Brentwood, TN 37027

(615) 373-3350

PROJECT NAME <i>Fish Study</i>		PROJECT CONTACT <i>John Doe</i>		PROJECT LOCATION <i>Lawson SC</i>		TELEPHONE NO. <i>6153733350</i>	
PROJECT NO. <i>4517</i>		PROJECT CONTACT		PROJECT MANAGER <i>AD</i>			
CLIENT REPRESENTATIVE <i>AD</i>							
SAMPLE ID	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (Include Matrix and Point of Sample)	NUMBER OF CONTAINERS	
SV535-20	4/26/01			X	<i>Fish</i> AE02487	1	
SV535-21				X	AE02488	1	
SV535-22				X	AE02489	1	
SV535-23				X	AE02490	1	
SV535-24				X	AE02491	1	
SV535-01R				X	AE02492	1	
SV641-12				X	AE02493	1	
SV641-13				X	AE02494	1	
SV641-14				X	AE02495	1	
SV641-15				X	AE02496	1	
SV641-16				X	AE02497	1	
SV641-17				X	AE02498	1	
SV641-18				X	AE02499	1	
SV641-19				X	AE02500	1	
SV641-20				X	AE02501	1	
Relinquished by (Signature) <i>James R. Doe</i>	Date / Time <i>4/23/01 12:17:00</i>	Received by (Signature)	Relinquished by (Signature)	Date / Time	Received by (Signature)	Relinquished by (Signature)	Date / Time
Relinquished by (Signature)	Date / Time	Received by (Signature)	Relinquished by (Signature)	Date / Time	Received by (Signature)	Relinquished by (Signature)	Date / Time
Relinquished by (Signature)	Date / Time	Received for Laboratory by (Signature) <i>Shawn Rice</i>	Date / Time	Remarks <i>4.0°C</i>	SAMPLERS (Signature)		

Note: Allow the laboratory to receive samples and signed the Chain of Custody Record, retain the yellow copy for the lab files. Send the white copy and express ticket to ERM Southeast at the address shown.

CHAIN OF CUSTODY RECORD

Page 3 of 3

ERM-SOUTHEAST, INC
7106 Crossroads Blvd
Suite 228
Brentwood, TN 37027

(615) 373 3350

PROJECT NAME		PROJECT LOCATION		PROJECT CONTACT		TELEPHONE NO	
Fish Study		Johnson SC		Jim Orr		615 373 3350	
PROJECT NO		PROJECT CONTACT		PROJECT MANAGER		TELEPHONE NO	
4517		Jim Orr		V.D.		615 373 3350	
CLIENT REPRESENTATIVE		PROJECT MANAGER		SAMPLE DESCRIPTION		NUMBER OF CONTAINERS	
V.D.		V.D.		(Include Matrix and Point of Sample)			
SAMPLE ID	DATE	TIME	COMP	GRAB	ANALYSES REQUESTED AND REMARKS		
SV641-08	4/19/01			X	Fish	AE024785	1
SV641-09			X			AE024786	1
SV641-10			X			AE024787	1
SV641-11			X			AE024788	1
RV641-04					Water	AE024809	1
RV641-04					Water	AE024810	1
SV535-20UP						AE024881	1
SV535-40UP						AE024882	1
SV641-01DUP						AE024843	1
SV106-19						AE02485	
SV106-20						AE02486	
Relinquished by (Signature)		Date / Time		Received by (Signature)		Date / Time	
[Signature]		4/20/01		[Signature]		11/30/01	
Relinquished by (Signature)		Date / Time		Received by (Signature)		Date / Time	
[Signature]		4/20/01		[Signature]		4/21/01	
Relinquished by (Signature)		Date / Time		Received for Laboratory by (Signature)		Date / Time	
[Signature]				Michael Rice		4/23/01 800	

White copy return yellow copy to lab, pink copy to sampler

SAMPLERS (Signature)

Note: After the laboratory has received samples and signed the Chain of Custody Record, retain the yellow copy for the Lab files. Send the white copy and express ticket to ERM Southeast at the address shown

CHAIN OF CUSTODY RECORD

Page 2 of 3

ERM SOUTHEAST, INC.
7106 Crossroads Blvd
Suite 228
Brentwood, TN 37027

(615) 373 3350

PROJECT NAME		PROJECT CONTACT		PROJECT LOCATION		TELEPHONE NO									
PROJECT NO		CLIENT REPRESENTATIVE		PROJECT MANAGER		ANALYSES REQUESTED AND REMARKS									
SAMPLE ID	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (Include Matrix and Point of Sample)	NUMBER OF CONTAINERS	A	B	C	D	E	F	G	H	I
SV535-12	4/19/01			X	Fish AED246X0	1									
SV535-13					AED24681	1									
SV535-14					AED24682	1									
SV535-15					AED24643	1									
SV535-16					AED24654	1									
SV535-17					AED24685	1									
SV535-18					AED24686	1									
SV535-19					AED24687	1									
SV641-01					AED24688	1									
SV641-02					AED247869	1									
SV641-03					AED247870	1									
SV641-04					AED247821	1									
SV641-05					AED247822	1									
SV641-06					AED247823	1									
SV641-07					AED247824	1									
Relinquished by (Signature)		Date / Time		Received by (Signature)		Date / Time		Relinquished by (Signature)		Date / Time		Received by (Signature)		Date / Time	
[Signature]		4/20/01 1600		[Signature]		11/30/01		[Signature]		4-23-01 800		[Signature]		[Signature]	
Relinquished by (Signature)		Date / Time		Received for Laboratory by (Signature)		Date / Time		Remarks		SAMPLERS (Signature)		[Signature]		[Signature]	
[Signature]				[Signature]											

(815) 773 3350

Page 1 of 3

[illegible]

CHAIN OF CUSTODY RECORD

ERM-SOUTHEAST, INC
7106 Crossroads Blvd
Suite 228
Brentwood, TN 37027

(615) 373-3350

PROJECT NAME		PROJECT LOCATION																		
PROJECT NO	PROJECT CONTACT	TELEPHONE NO																		
4517	Jim Orr	615 373 3350																		
CLIENT REPRESENTATIVE			PROJECT MANAGER																	
78			50																	
SAMPLE ID	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (Include Matrix and Point of Sample)	NUMBER OF CONTAINERS		ANALYSES REQUESTED AND REMARKS												
						Top 24														
						ReBis + Trc														
SD-007	4/26/00	1000	X		Sediment	AE02788	2	11												
SD-008		1315				AE02789	2	11												
SD-009		1330				AE02790	2	11												
SD-010		1350				AE02791	2	11												
SD-011		1410				AE02792	2	11												
SD-012		1420				AE02793	2	11												
SD-013		1435				AE02794	2	11												
SD-014		1510				AE02795	2	11												
SD-015		1530				AE02796	2	11												
						AE02797	2	11												
Relinquished by (Signature)						Received by (Signature)		Relinquished by (Signature)		Date / Time		Received by (Signature)		Date / Time		Received by (Signature)				
K. R. Orr										4/26/00 1000										
Relinquished by (Signature)						Received by (Signature)		Relinquished by (Signature)		Date / Time		Received by (Signature)		Date / Time		Received by (Signature)				
Relinquished by (Signature)						Received for Laboratory by (Signature)		Date / Time		Remarks										
						K. R. Orr		4-27-01 1030		T. Y. O. C.										

Note: After the laboratory has received samples and signed the Chain of Custody Record, retain the yellow copy for the Lab files. Send the white copy and express ticket to ERM Southeast at the address shown.

CHAIN OF CUSTODY RECORD

Page 1 of 3

ERM SOUTHEAST, INC
7106 Crossroads Blvd
Suite 228
Brentwood, TN 37027

(615) 373 3350

PROJECT NAME		PROJECT LOCATION		TELEPHONE NO												
PROJECT NO	PROJECT CONTRACT	PROJECT MANAGER		TELEPHONE NO												
CLIENT REPRESENTATIVE																
SAMPLE ID	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (Include Matrix and Point of Sample)	NUMBER OF CONTAINERS	ANALYSES REQUESTED AND REMARKS									
SV107-1*	4/10/61		X		FEIGH AE02297	1	121215									
SV107-2*			X		AE02298	1										
SV107-3*			X		AE02299	1										
SV107-4*			X		AE02300	1										
SV107-5*			X		AE02301	1										
SV107-6*			X		AE02302	1										
SV107-7*			X		AE02303	1										
SV107-8			X		AE02304	1										
SV106-1			X		AE02305	1										
SV106-2			X		AE02306	1										
SV106-3*			X		AE02307	1	Duplicate									
SV106-4*			X		AE02308	1										
SV106-5*			X		AE02309	1										
SV106-6*			X		AE02310	1	Written on COC 2X see									
SV106-6			X													
Relinquished by (Signature)		Date / Time		Received by (Signature)		Relinquished by (Signature)		Date / Time		Received by (Signature)						
James R. Orr		4/10/61 1000														
Relinquished by (Signature)		Date / Time		Received by (Signature)		Relinquished by (Signature)		Date / Time		Received by (Signature)						
Relinquished by (Signature)		Date / Time		Received for Laboratory by (Signature)		Date / Time		Remarks								
				J. Orr		4-19-01 1100		3.3% C								

White copy return to _____ yellow copy to Lab, pink copy to sampler

SAMPLERS (Signature)

Note: After the laboratory has received samples and signed the Chain of Custody Record, retain the yellow copy for the Lab files. Send the white copy and express ticket to ERM Southeast at the address shown.

CHAIN OF CUSTODY RECORD

Page 2 of 3

ERM SOUTHEAST, INC
7106 Crossroads Blvd
Suite 228
Brentwood, TN 37027

(615) 373 3350

PROJECT NAME		Fish Study		PROJECT LOCATION		Section SC	
PROJECT NO	PROJECT CONTACT	J.M.		TELEPHONE NO	615 373 3350		
CLIENT REPRESENTATIVE		T.O.		PROJECT MANAGER			
SAMPLE ID	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (Include Matrix and Point of Sample)		
SV106-7	4/17/01		X		Fish AE02311		
SV106-8			X		AE02312		
SV106-9			X		AE02313		
SV106-10			X		AE02314		
SV106-11			X		AE02315		
SV106-12			X		AE02316		
SV106-13			X		AE02317		
SV106-14			X		AE02318		
SV106-15			X		AE02319		
SV532-1			X		AE02320		
SV532-2			X		AE02321		
SV532-3			X		AE02322		
SV532-4			X		AE02323		
SV532-5			X		AE02324		
SV532-6			X		AE02325		
Relinquished by (Signature)					Date / Time		
James R. O'ne					4/18/01 1005		
Received by (Signature)					Received by (Signature)		
James R. O'ne					James R. Rice		
Relinquished by (Signature)					Date / Time		
Received for Laboratory by (Signature)					Date / Time		
James R. Rice					4-17-01 1100		
Remarks					3.3°C		
SAMPLERS (Signature)							

6

[illegible]

CHAIN OF CUSTODY RECORD

PAGE 4 OF 4

NORTHEAST ANALYTICAL, INC.

2190 Technology Drive, Schenectady, NY 12308
 Telephone (518) 346-4592 Fax (518) 381-6055
 www.nealab.com information @nealab.com

LR# # 61040082
 (NEA USE ONLY)

DISPOSAL REQUIREMENTS (To be filled in by Client)

RETURN TO CLIENT
 DISPOSAL BY NORTHEAST ANALYTICAL
 ARCHIVAL BY NORTHEAST ANALYTICAL
 Additional charges incurred for disposal (if hazardous) or archival Call for details

CLIENT (REPORTS TO BE SENT TO)

ERMSE

PROJECT MANAGER

Jim Orr

PHONE

615-373-3350

SAMPLED BY (Please Print)

J. ORR

SAMPLING FIRM

ERM

PROJECT/PROJECT NAME

FISH STUDY

LOCATION (CITY/STATE) ADDRESS

CLEMSON, SC

REQUIRED TURN AROUND TIME

STD

NAME OF COURIER (IF USED)

RESULTS TO BE E-MAILED

RESULTS TO BE FAXED

SAMPLE ID

SV107-9

E-MAIL ADDRESS

FAX #

DATE

4-17-01

TIME

MATRIX

FISH

GRAB/COMP

LAB

SAMPLE ID

AE02484

NUMBER OF CONTAINERS

1

X

ENTER ANALYSIS AND METHOD NUMBER REQUESTED

PRESERVATIVE CODE:

BOTTLE TYPE

BOTTLE SIZE

PRESERVATIVE KEY

0 - NONE

1 - HCL

2 - HNO3

3 - H2SO4

4 - NaOH

5 - Zn Acetate

6 - MeOH

7 - NaHSO4

8 - Other

REMARKS

Sample was left off original loc. as per J. Orr

J. Orr

AMBIENT OR CHILLED

RECEIVED BROKEN OR LEAKING

RELINQUISHED BY

SIGNATURE

PRINTED NAME

COMPANY

DATE/TIME

TEMP

Y

N

COC TAPE

Y

N

COC DISCREPANCIES

Y

N

RECEIVED BY

SIGNATURE

PRINTED NAME

COMPANY

DATE/TIME

PROPERLY PRESERVED

Y

N

REC'D W/ HOLDING TIMES

Y

N

OTHER NOTES

SIGNATURE

PRINTED NAME

COMPANY

DATE/TIME

RECEIVED BY

SIGNATURE

PRINTED NAME

COMPANY

DATE/TIME

Note: After the laboratory has received samples and signed the Chain of Custody Record, retain the yellow copy for the Lab files. Send the white copy and express ticket to ERM-Southeast at the address shown

CHAIN OF CUSTODY RECORD

Page 1 of 3

ERM-SOUTHEAST, INC
7106 Crossroads Blvd
Suite 228
Brentwood, TN 37027
(615) 373-3350

PROJECT NAME		PROJECT NO		PROJECT CONTACT		PROJECT LOCATION		TELEPHONE NO							
Fish Study		4517		Jim Dm		Glenwood SC		615 373 3350							
CLIENT REPRESENTATIVE		PROJECT MANAGER													
AD		VP													
SAMPLE ID	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (Include Matrix and Point of Sample)	NUMBER OF CONTAINERS				ANALYSES REQUESTED AND REMARKS					
SV535-20	4/20/01			X	Fish AEO2487	1									
SV535-21				X	AE02488	1									
SV535-22				X	AE02489	1									
SV535-23				X	AE02490	1									
SV535-24				X	AE02491	1									
SV535-01R				X	AE02492	1									
SV641-12					AE02493	1									
SV641-13					AE02494	1									
SV641-14					AE02495	1									
SV641-15					AE02496	1									
SV641-16					AE02497	1									
SV641-17					AE02498	1									
SV641-18					AE02499	1									
SV641-19					AE02500	1									
SV641-20					AE02501	1									
Relinquished by (Signature)		Date / Time		Received by (Signature)		Relinquished by (Signature)		Date / Time		Received by (Signature)		Date / Time			
James R Dm		4/23/01 1700													
Relinquished by (Signature)		Date / Time		Received by (Signature)		Relinquished by (Signature)		Date / Time		Received by (Signature)		Date / Time			
Relinquished by (Signature)		Date / Time		Received for Laboratory by (Signature)		Date / Time		Remarks		SAMPLERS (Signature)					
				JMAC Rec		4-24-01 1030		4.0°C							

CHAIN OF CUSTODY RECORD

PROJECT NAME		PROJECT LOCATION		CHAIN OF CUSTODY RECORD														
PROJECT NO.	PROJECT CONTACT	PROJECT MANAGER	TELEPHONE NO.	ANALYSES REQUESTED AND REMARKS														
CLIENT REPRESENTATIVE																		
SAMPLE ID	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (Include Matrix and Point of Sample)	NUMBER OF CONTAINERS	ANALYSES REQUESTED AND REMARKS											
SV642-01	4-20			X	AE02502	1	PCB'S											
SV642-02					AE02503	1												
SV642-03					AE02504	1												
SV642-04					AE02505	1												
SV642-05					AE02506	1												
SV642-06					AE02507	1												
SV642-07					AE02508	1												
SV642-08					AE02509	1												
SV642-09					AE02510	1												
SV642-10					AE02511	1												
SV642-11					AE02512	1												
SV642-12					AE02513	1												
SV642-13					AE02514	1												
SV642-14					AE02515	1												
SV642-15					AE02516	1												
Relinquished by (Signature)				Date / Time	Received by (Signature)	Relinquished by (Signature)												
Date / Time						Date / Time												
Relinquished by (Signature)				Date / Time	Received by (Signature)	Relinquished by (Signature)												
Date / Time						Date / Time												
Relinquished by (Signature)				Date / Time	Received by (Signature)	Relinquished by (Signature)												
Date / Time						Date / Time												
Relinquished by (Signature)				Date / Time	Received by (Signature)	Relinquished by (Signature)												
Date / Time						Date / Time												

Note: After the laboratory has received samples and signed the Chain of Custody Record, retain the yellow copy for the Lab files. Send the white copy and express ticket to ERM Southeast at the address shown.

CHAIN OF CUSTODY RECORD

Page 3 of 3

ERM-SOUTHEAST, INC
7108 Crossroads Blvd
Suite 228
Brentwood, TN 37027

(615) 373 3350

PROJECT NAME Fish Study PROJECT CONTACT John Orr PROJECT MANAGER AD

PROJECT ID 4817 DATE 4/20/01 TIME 4:20 COMP X GRAB X SAMPLE DESCRIPTION (Include Matrix and Point of Sample) Fish AE02517

CLIENT REPRESENTATIVE John Orr TELEPHONE NO. 615 373 3350

ANALYSES REQUESTED AND REMARKS PCB

NUMBER OF CONTAINERS

SAMPLE ID	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (Include Matrix and Point of Sample)	NUMBER OF CONTAINERS	A B C D E F G H I									
SV642-15	4/20/01	4:20	X	X	Fish AE02517	1										
SV642-16	4/20	4:20	X	X	Fish AE02518	1										
EB-5	4/20	4:20	X	X	Water AE02519	1										
TR-5	4/20	4:20	X	X	Water AE02520	1										
SV641-17	4/20	4:20			Fish AE02521	1										
SV641-20	4/20	4:20			Fish AE02522	1										
SV642-10	4/20	4:20			Fish AE02523	1										

Relinquished by (Signature) John Orr Date / Time 4/20/01 1700 Received by (Signature) John Orr

Relinquished by (Signature) John Orr Date / Time 4/20/01 1700 Received by (Signature) John Orr

Relinquished by (Signature) John Orr Date / Time 4/20/01 1700 Received by (Signature) John Orr

Relinquished by (Signature) John Orr Date / Time 4/20/01 1700 Received by (Signature) John Orr

Relinquished by (Signature) John Orr Date / Time 4/20/01 1700 Received by (Signature) John Orr

Relinquished by (Signature) John Orr Date / Time 4/20/01 1700 Received by (Signature) John Orr

Relinquished by (Signature) John Orr Date / Time 4/20/01 1700 Received by (Signature) John Orr

White copy return to Lab pink copy to sampler

(815) 373 3350

PROJECT NAME		PROJECT CONTACT		PROJECT MANAGER		TELEPHONE NO.		ANALYSES REQUESTED AND REMARKS	
Fish Study		Jim Orr		Jim Orr		615 373 3350		01040100	
CLIENT REPRESENTATIVE		PROJECT MANAGER		PROJECT MANAGER		PROJECT MANAGER		PROJECT MANAGER	
SAMPLE ID		DATE		TIME		COMP		GRAB	
SV107-18		4/19/01							
SV107-19									
SV107-20									
SV107-21									
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SV107-272									

(815) 373 3350

				Juan Rhee
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001040100

Hold
Hold
Duplicate

[illegible]

4-23-21	800
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100

White copy return to [redacted] yellow copy to lab, pink copy to samples.

Note: After the laboratory has received samples and signed the Chain of Custody Record, retain the yellow copy for the Lab files. Send the white copy and express ticket to ERM Southeast at the address above.

CHAIN OF CUSTODY RECORD

Page 3 of 3

ERM-SOUTHEAST, INC
7106 Crossroads Blvd
Suite 228
Brentwood, TN 37027

18151 272 2250

PROJECT NAME						PROJECT LOCATION									
PROJECT NO		PROJECT CONTACT		TELEPHONE NO											
CLIENT REPRESENTATIVE		PROJECT MANAGER													
SAMPLE ID	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (Include Matrix and Point of Sample)	NUMBER OF CONTAINERS									
						A	B	C	D	E	F	G	H	I	
SV64-08	4/19/01			X	Fish AED 24785										
SV64-09				X	AED 24786										
SV64-10				X	AED 24787										
SV64-11				X	AED 24788										
Race Blk 04					Water AED 24889										
Inj Blk 04					Water AED 24890										
SV535-2BWP					AED 24881										
SV535-4BWP					AED 24882										
SV64-01DWP					AED 24843										
Relinquished by (Signature) _____ Date / Time _____						Received by (Signature) _____ 11/30/01									
Relinquished by (Signature) _____ Date / Time _____						Received by (Signature) _____ 4/21/01									
Relinquished by (Signature) _____ Date / Time _____						Received for Laboratory by (Signature) _____ 4/23/01 800									

ERM-SOUTHEAST, INC.
7106 Crossroads Blvd
Suite 228
Brentwood, TN 37021
(615) 378-8888

PROJECT NAME		PROJECT LOCATION		PROJECT CONTACT		TELEPHONE NO			
PROJECT NO		PROJECT CONTACT		PROJECT MANAGER		TELEPHONE NO			
CLIENT REPRESENTATIVE		PROJECT MANAGER		TELEPHONE NO		TELEPHONE NO			
SAMPLE ID	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (Include Matrix and Point of Sample)	NUMBER OF CONTAINERS	ANALYSES REQUESTED AND REMARKS		
SV107-10	4/18				Fish AE02415	1	PCB's		
SV107-11					AE02416	1			
SV107-12					AE02417	1			
SV107-13					AE02418	1			
SV107-14					AE02419	1	Duplicate		
SV107-15					AE02420	1			
SV107-16					AE02421	1			
SV107-17					AE02422	1			
SV106-16					AE02423	1	Hold		
SV106-17					AE02424	1	Hold		
SV106-18					AE02425	1	Hold		
SV532-14					AE02426	1	Duplicate		
SV532-15					AE02427	1			
SV532-16					AE02428	1			
SV532-17					AE02429	1			
Relinquished by (Signature)					Date / Time	Received by (Signature)	Relinquished by (Signature)	Date / Time	Received by (Signature)
Steve K. Orr					4/19/01 1000				
Relinquished by (Signature)					Date / Time	Received by (Signature)	Relinquished by (Signature)	Date / Time	Received by (Signature)
Relinquished by (Signature)					Date / Time	Received for Laboratory by (Signature)	Relinquished by (Signature)	Date / Time	Remarks
						Assoc. Rec		4-20-01 1030	S, 1 st c
SAMPLES (Signature)					SAMPLES (Signature)				

CHAIN OF CUSTODY RECORD

PAGE 3 OF 3

NORTHEAST ANALYTICAL, INC.

2190 Technology Drive, Schenectady, NY 12308
Telephone (518) 346-4592 Fax (518) 381-6055
www.nealab.com information@nealab.com

LR# 01040099

(NEA USE ONLY)

DISPOSAL REQUIREMENTS (To be filled in by Client)

- ☐ RETURN TO CLIENT
☐ DISPOSAL BY NORTHEAST ANALYTICAL
☐ ARCHIVAL BY NORTHEAST ANALYTICAL

Additional charges incurred for disposal (if hazardous) or archival Call for details

CLIENT (REPORTS TO BE SENT TO)

ERMUSE

PROJECT MANAGER

Jim Ovr

PHONE

615-373-3350

SAMPLED BY (Please Print)

J. Ovr

SAMPLING FIRM

ERM

PROJECT/PROJECT NAME

Fish Study

LOCATION (CITY/STATE) ADDRESS

CLEMSON, SC

REQUIRED TURN AROUND TIME

STD

NAME OF COURIER (IF USED)

RESULTS TO BE E-MAILED ☐ E-MAIL ADDRESS

RESULTS TO BE FAXED ☐ FAX #

SAMPLE ID

DATE

TIME

MATRIX

GRAB/COMP

LAB

SAMPLE ID (NEA USE ONLY)

NUMBER OF CONTAINERS

COCS

ENTER ANALYSIS AND METHOD NUMBER REQUESTED

PRESERVATIVE CODE:

BOTTLE TYPE

BOTTLE SIZE

PRESERVATIVE KEY

- 0 - NONE
1 - HCL
2 - HNO3
3 - H2SO4
4 - NaOH
5 - Zn Acetate
6 - MeOH
7 - NaHSO4
8 - Other

REMARKS

SY107-13 DUP
SY532-14 DUP
SY532-24 DUP

4-18-01
4-18-01
4-18-01

—
—
—

FISH
FISH
FISH

A
G
A

AE02443
AE02444
AE02445

1
1
1

X
X
X

AMBIENT OR CHILLED
RECEIVED BROKEN OR LEAKING
RELINQUISHED BY

TEMP 5.1°C
Y N
Y N

COC TAPE
COC DISCREPANCIES

Y N
Y N

SIGNATURE
PRINTED NAME

RECEIVED BY
RELINQUISHED BY

SIGNATURE
PRINTED NAME

PROPERLY PRESERVED
RECD W/ HOLDING TIMES

Y N
Y N

OTHER NOTES

SIGNATURE
PRINTED NAME

RECEIVED BY
RELINQUISHED BY

SIGNATURE
PRINTED NAME

DATE/TIME
DATE/TIME

DATE/TIME
DATE/TIME

DATE/TIME
DATE/TIME

DATE/TIME
DATE/TIME

CHAIN OF CUSTODY RECORD

Page 3 of 3

ERM SOUTHEAST, INC
7108 Crossroads Blvd
Suite 228
Brentwood, TN 37027

(615) 373 3350

PROJECT NAME		PROJECT CONTACT		PROJECT LOCATION		TELEPHONE NO.	
Fish Study		Jim Dr		Johnson SC		615 373 3350	
CLIENT REPRESENTATIVE		PROJECT MANAGER		NUMBER OF CONTAINERS		ANALYSES REQUESTED AND REMARKS	
4517		470		470		01040082	
SAMPLE ID	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (Include Matrix and Point of Sample)		
SV532-7	4/17/01			X	Fish AEO2326	Duplicate. PCB'S	
SV532-8			X		AE02327		
SV532-9			X		AE02328		
SV532-10			X		AE02329		
SV532-11			X		AE02330		
SV532-12			X		AE02331		
SV532-13			X		AE02332		
SV107-10DUP			X		FISH AE02333		
Rinse B/L-1					Water AE02334		
Trig B/L-1					AE02335		
Base B/L-2					AE02336		
Trig B/L-2					AE02337		
SV106-4DUP	4-17-01		X		FISH AE02338		
SV532-4DUP			X		AE02339		
SV532-8DUP					AE02340		
Relinquished by (Signature)		Date / Time		Received by (Signature)		Date / Time	
James R. Dr		4/18/01 1000					
Relinquished by (Signature)		Date / Time		Received by (Signature)		Date / Time	
Relinquished by (Signature)		Date / Time		Received for Laboratory by (Signature)		Date / Time	
				MARC Kue		4/19/01 1100	
Relinquished by (Signature)		Date / Time		Remarks		Date / Time	
				330C			
SAMPLERS (Signature)		Date / Time		Received by (Signature)		Date / Time	

CHAIN OF CUSTODY RECORD

Page 1 of 3

ERM SOUTHEAST, INC
7106 Crossroads Blvd
Suite 228
Brentwood, TN 37027

(615) 373 3350

PROJECT NAME		PROJECT CONTACT		PROJECT LOCATION		TELEPHONE NO											
PROJECT NO		PROJECT CONTACT		PROJECT MANAGER		TELEPHONE NO											
CLIENT REPRESENTATIVE		PROJECT MANAGER		TELEPHONE NO		TELEPHONE NO											
SAMPLE ID	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (Include Matrix and Point of Sample)	NUMBER OF CONTAINERS	A	B	C	D	E	F	G	H	I	ANALYSES REQUESTED AND REMARKS	
SV107-1	4/17/01		X		Fish AE02297	1										PCB's	
SV107-2			X		AE02298	1											
SV107-3			X		AE02299	1											
SV107-4			X		AE02300	1											
SV107-5			X		AE02301	1											
SV107-6			X		AE02302	1											
SV107-7			X		AE02303	1											
SV107-8			X		AE02304	1											
SV106-1			X		AE02305	1											
SV106-2			X		AE02306	1											
SV106-3			X		AE02307	1											
SV106-4			X		AE02308	1											
SV106-5			X		AE02309	1											
SV106-6			X		AE02310	1											
SV106-6			X														
Relinquished by (Signature)		Date / Time		Received by (Signature)		Relinquished by (Signature)		Date / Time		Received by (Signature)		Date / Time		Received by (Signature)		ANALYSES REQUESTED AND REMARKS	
James E Orr		4/18/01 1000														01040082	
Relinquished by (Signature)		Date / Time		Received by (Signature)		Relinquished by (Signature)		Date / Time		Received by (Signature)		Date / Time		Received by (Signature)		ANALYSES REQUESTED AND REMARKS	
																3.3°C	
Relinquished by (Signature)		Date / Time		Received by (Signature)		Relinquished by (Signature)		Date / Time		Received by (Signature)		Date / Time		Received by (Signature)		ANALYSES REQUESTED AND REMARKS	
																3.3°C	

Note: Allow the laboratory to receive samples and signed the Chain of Custody Record, retain the yellow copy for the lab files. Send the white copy and express ticket to ERM Southeast at the address shown

CHAIN OF CUSTODY RECORD

Page 2 of 3

ERM SOUTHEAST, INC
7106 Crossroads Blvd
Suite 228
Brentwood, TN 37027
(615) 373 3350

PROJECT NAME		Fish Study		PROJECT LOCATION		Johnson SC	
PROJECT NO	4517	PROJECT CONTACT	Jim Orr	TELEPHONE NO	615 373 3350		
CLIENT REPRESENTATIVE		DO		PROJECT MANAGER		DO	
SAMPLE ID	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (Include Matrix and Point of Sample)	NUMBER OF CONTAINERS	
SV106-7	4/17/01		X		Fish AEO2311	1	
SV106-8			X		AE02312	1	
SV106-9			X		AE02313	1	
SV106-10			X		AE02314	1	
SV106-11			X		AE02315	1	
SV106-12			X		AE02316	1	
SV106-13			X		AE02317	1	
SV106-14			X		AE02318	1	
SV106-15			X		AE02319	1	
SV532-1			X		AE02320	1	
SV532-2			X		AE02321	1	
SV532-3			X		AE02322	1	
SV532-4			X		AE02323	1	
SV532-5			X		AE02324	1	
SV532-6			X		AE02325	1	
Relinquished by (Signature)		Date / Time		Received by (Signature)		Date / Time	
James R. Orr		4/18/01 1006		Judeal Rice			
Relinquished by (Signature)		Date / Time		Received by (Signature)		Date / Time	
Relinquished by (Signature)		Date / Time		Received for Laboratory by (Signature)		Date / Time	
				Judeal Rice		4-19-01 1100	
Remarks		SAMPLERS (Signature)		ANALYSES REQUESTED AND REMARKS		01040082	
3.3°C							

White copy return to ERM, yellow copy to lab, pink copy to sampler

CHAIN OF CUSTODY RECORD Page 2 of 3

ERM SOUTHEAST, INC
7106 Crossroads Blvd
Suite 228
Brentwood, TN 37027
(615) 373 3350

01040099

ANALYSES REQUESTED
AND REMARKS

PROJECT NAME		PROJECT LOCATION		PROJECT CONTACT		TELEPHONE NO									
PROJECT NO		PROJECT CONTACT		PROJECT MANAGER		TELEPHONE NO									
CLIENT REPRESENTATIVE		PROJECT MANAGER		TELEPHONE NO		TELEPHONE NO									
SAMPLE ID	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (Include Matrix and Point of Sample)	NUMBER OF CONTAINERS	A	B	C	D	E	F	G	H	I
SVS32-18	4/18/01		X		Fish AE02430	1									
SVS32-19			X		AE02431	1									
SVS32-20			X		AE02432	1									
SVS32-21			X		AE02433	1									
SVS32-22			X		AE02434	1									
SVS32-23			X		AE02435	1									
SVS32-24			X		AE02436	1									
SVS32-25			X		AE02437	1									
SVS32-26			X		AE02438	1									
SVS32-27			X		AE02439	1									
SVS3509			X		AE02440	1									
Blank 3					Water AE02441	1									
Blank 3					Water AE02442	1									
Relinquished by (Signature)		Date / Time		Received by (Signature)		Relinquished by (Signature)		Date / Time		Received by (Signature)		Date / Time		Received by (Signature)	
[Signature]		4/19/01 1000		[Signature]		[Signature]		4-20-01 1030		[Signature]		[Signature]		[Signature]	
Relinquished by (Signature)		Date / Time		Received for Laboratory by (Signature)		Date / Time		Remarks		SAMPLERS (Signature)		Date / Time		Received by (Signature)	
[Signature]		[Signature]		[Signature]		[Signature]		5.16L		[Signature]		[Signature]		[Signature]	

CHAIN OF CUSTODY RECORD

Page 1 of 3

ERM SOUTHEAST, INC
7106 Crossroads Blvd
Suite 228
Brentwood TN 37027

PROJECT NAME		PROJECT CONTACT		PROJECT LOCATION		PROJECT MANAGER		TELEPHONE NO.		CHAIN OF CUSTODY RECORD		Page 1010					
PROJECT NO.		CLIENT REPRESENTATIVE		DATE		TIME		COMP		GRAB		SAMPLE DESCRIPTION (Include Matrix and Point of Sample)		NUMBER OF CONTAINERS		ANALYSES REQUESTED AND REMARKS	
SAMPLE ID		DATE		TIME		COMP		GRAB		SAMPLE DESCRIPTION (Include Matrix and Point of Sample)		NUMBER OF CONTAINERS		ANALYSES REQUESTED AND REMARKS		ANALYSES REQUESTED AND REMARKS	
SV107-10		4/18						X		Fish		AE02415		1		PCB's	
SV107-11								X				AE02416		1			
SV107-12								X				AE02417		1			
SV107-13								X				AE02418		1			
SV107-14								X				AE02419		1		Duplicate	
SV107-15								X				AE02420		1			
SV107-16								X				AE02421		1			
SV107-17								X				AE02422		1			
SV106-16								X				AE02423		1		Hold	
SV106-17								X				AE02424		1			
SV106-18								X				AE02425		1			
SV532-14								X				AE02426		1		Hold	
SV532-15								X				AE02427		1		Duplicate	
SV532-16								X				AE02428		1			
SV532-17								X				AE02429		1			
Relinquished by (Signature)		Date / Time		Received by (Signature)		Date / Time		Relinquished by (Signature)		Date / Time		Received by (Signature)		Date / Time		Received by (Signature)	
James R. Olin		4/19/01 1000															
Relinquished by (Signature)		Date / Time		Received by (Signature)		Date / Time		Relinquished by (Signature)		Date / Time		Received by (Signature)		Date / Time		Received by (Signature)	
Relinquished by (Signature)		Date / Time		Received by (Signature)		Date / Time		Relinquished by (Signature)		Date / Time		Received by (Signature)		Date / Time		Received by (Signature)	
Relinquished by (Signature)		Date / Time		Received by (Signature)		Date / Time		Relinquished by (Signature)		Date / Time		Received by (Signature)		Date / Time		Received by (Signature)	
Relinquished by (Signature)		Date / Time		Received by (Signature)		Date / Time		Relinquished by (Signature)		Date / Time		Received by (Signature)		Date / Time		Received by (Signature)	
Relinquished by (Signature)		Date / Time		Received by (Signature)		Date / Time		Relinquished by (Signature)		Date / Time		Received by (Signature)		Date / Time		Received by (Signature)	
Relinquished by (Signature)		Date / Time		Received by (Signature)		Date / Time		Relinquished by (Signature)		Date / Time		Received by (Signature)		Date / Time		Received by (Signature)	
Relinquished by (Signature)		Date / Time		Received by (Signature)		Date / Time		Relinquished by (Signature)		Date / Time		Received by (Signature)		Date / Time		Received by (Signature)	
Relinquished by (Signature)		Date / Time		Received by (Signature)		Date / Time		Relinquished by (Signature)		Date / Time		Received by (Signature)		Date / Time		Received by (Signature)	
Relinquished by (Signature)		Date / Time		Received by (Signature)		Date / Time		Relinquished by (Signature)		Date / Time		Received by (Signature)		Date / Time		Received by (Signature)	
Relinquished by (Signature)		Date / Time		Received by (Signature)		Date / Time		Relinquished by (Signature)		Date / Time		Received by (Signature)		Date / Time		Received by (Signature)	
Relinquished by (Signature)		Date / Time		Received by (Signature)		Date / Time		Relinquished by (Signature)		Date / Time		Received by (Signature)		Date / Time		Received by (Signature)	
Relinquished by (Signature)		Date / Time		Received by (Signature)		Date / Time		Relinquished by (Signature)		Date / Time		Received by (Signature)		Date / Time		Received by (Signature)	
Relinquished by (Signature)		Date / Time		Received by (Signature)		Date / Time		Relinquished by (Signature)		Date / Time		Received by (Signature)		Date / Time		Received by (Signature)</	

CHAIN OF CUSTODY RECORD

PAGE 3 OF 3

NORTHEAST ANALYTICAL, INC.

2190 Technology Drive, Schenectady, NY 12308
 Telephone (518) 346-4592 Fax (518) 381-6055
 www.nealab.com information@nealab.com

LR# # 01040099
 (NEA USE ONLY)

DISPOSAL REQUIREMENTS: (To be filled in by Client)

- ☐ RETURN TO CLIENT
- ☐ DISPOSAL BY NORTHEAST ANALYTICAL
- ☐ ARCHIVAL BY NORTHEAST ANALYTICAL

Additional charges incurred for disposal (if hazardous) or archival Call for details

CLIENT (REPORTS TO BE SENT TO)

ERMUSE

PROJECT# / PROJECT NAME

PROJECT MANAGER

FISH STUDY

LOCATION (CITY/STATE) ADDRESS

Jim Orr

PHONE

615-373-3350

SAMPLED BY (Please Print)

J. Orr

SAMPLING FIRM

ERM

REQUIRED TURN AROUND TIME

STD

NAME OF COURIER (IF USED)

RESULTS TO BE E-MAILED ☐

E-MAIL ADDRESS

RESULTS TO BE FAXED ☐

FAX #

SAMPLE ID

DATE

TIME

MATRIX

GRAB/COMP

LAB

SAMPLE ID

(NEA USE ONLY)

NUMBER OF CONTAINERS

2888 2082445

ENTER ANALYSIS AND METHOD NUMBER REQUESTED

PRESERVATIVE CODE:

BOTTLE TYPE

BOTTLE SIZE

PRESERVATIVE KEY

0 - NONE

1 - HCL

2 - HNO3

3 - H2SO4

4 - NaOH

5 - Zn Acetate

6 - MeOH

7 - NaHSO4

8 - Other

REMARKS

AMBIENT OR CHILLED

TEMP

5.1°C

RECEIVED BROKEN OR LEAKING

Y

N

RELINQUISHED BY

SIGNATURE

RECEIVED BY

SIGNATURE

RELINQUISHED BY

SIGNATURE

RECEIVED BY

SIGNATURE

RELINQUISHED BY

SIGNATURE

RECEIVED BY

SIGNATURE

RELINQUISHED BY

SIGNATURE

RECEIVED BY

PRINTED NAME

PRINTED NAME

PRINTED NAME

PRINTED NAME

PRINTED NAME

PRINTED NAME

COMPANY

COMPANY

COMPANY

COMPANY

COMPANY

COMPANY

DATE/TIME

DATE/TIME

DATE/TIME

DATE/TIME

DATE/TIME

DATE/TIME

Note: After the laboratory has received samples and signed the Chain of Custody Record, retain the yellow copy for the Lab files. Send the white copy and express ticket to ERM-Southeast at the address shown.

CHAIN OF CUSTODY RECORD

ERM-SOUTHEAST, INC
7106 Crossroads Blvd
Suite 228
Brentwood, TN 37027
(615) 373-3350

PROJECT NAME: Fish Study PROJECT CONTACT: Edmon SC PROJECT MANAGER: Edmon SC
PROJECT NO: 4579 TELEPHONE NO: 615 373 3350
CLIENT REPRESENTATIVE: Lim Or

SAMPLE ID: SV-535017 DATE: 4/27 TIME: COMP: X GRAB:
SAMPLE DESCRIPTION: Fish
(Include Matrix and Point of Sample)

NUMBER OF CONTAINERS

ANALYSES REQUESTED AND REMARKS

01050009

A B C D E F G H I
1000

SAMPLE ID: SV-535017 DATE: 4/27 TIME: COMP: X GRAB:
SAMPLE DESCRIPTION: Fish
(Include Matrix and Point of Sample)

SAMPLE ID: SV-535017 DATE: 4/27 TIME: COMP: X GRAB:
SAMPLE DESCRIPTION: Fish
(Include Matrix and Point of Sample)

SAMPLE ID: SV-535017 DATE: 4/27 TIME: COMP: X GRAB:
SAMPLE DESCRIPTION: Fish
(Include Matrix and Point of Sample)

SAMPLE ID: SV-535017 DATE: 4/27 TIME: COMP: X GRAB:
SAMPLE DESCRIPTION: Fish
(Include Matrix and Point of Sample)

SAMPLE ID: SV-535017 DATE: 4/27 TIME: COMP: X GRAB:
SAMPLE DESCRIPTION: Fish
(Include Matrix and Point of Sample)

SAMPLE ID: SV-535017 DATE: 4/27 TIME: COMP: X GRAB:
SAMPLE DESCRIPTION: Fish
(Include Matrix and Point of Sample)

SAMPLE ID: SV-535017 DATE: 4/27 TIME: COMP: X GRAB:
SAMPLE DESCRIPTION: Fish
(Include Matrix and Point of Sample)

SAMPLE ID: SV-535017 DATE: 4/27 TIME: COMP: X GRAB:
SAMPLE DESCRIPTION: Fish
(Include Matrix and Point of Sample)

SAMPLE ID: SV-535017 DATE: 4/27 TIME: COMP: X GRAB:
SAMPLE DESCRIPTION: Fish
(Include Matrix and Point of Sample)

SAMPLE ID: SV-535017 DATE: 4/27 TIME: COMP: X GRAB:
SAMPLE DESCRIPTION: Fish
(Include Matrix and Point of Sample)

SAMPLE ID: SV-535017 DATE: 4/27 TIME: COMP: X GRAB:
SAMPLE DESCRIPTION: Fish
(Include Matrix and Point of Sample)

SAMPLE ID: SV-535017 DATE: 4/27 TIME: COMP: X GRAB:
SAMPLE DESCRIPTION: Fish
(Include Matrix and Point of Sample)

SAMPLE ID: SV-535017 DATE: 4/27 TIME: COMP: X GRAB:
SAMPLE DESCRIPTION: Fish
(Include Matrix and Point of Sample)

SAMPLE ID: SV-535017 DATE: 4/27 TIME: COMP: X GRAB:
SAMPLE DESCRIPTION: Fish
(Include Matrix and Point of Sample)

SAMPLE ID: SV-535017 DATE: 4/27 TIME: COMP: X GRAB:
SAMPLE DESCRIPTION: Fish
(Include Matrix and Point of Sample)

SAMPLE ID: SV-535017 DATE: 4/27 TIME: COMP: X GRAB:
SAMPLE DESCRIPTION: Fish
(Include Matrix and Point of Sample)

SAMPLE ID: SV-535017 DATE: 4/27 TIME: COMP: X GRAB:
SAMPLE DESCRIPTION: Fish
(Include Matrix and Point of Sample)

SAMPLE ID: SV-535017 DATE: 4/27 TIME: COMP: X GRAB:
SAMPLE DESCRIPTION: Fish
(Include Matrix and Point of Sample)

White copy return to Lab, pink copy to sampler

SAMPLERS (Signature)

Note: After the laboratory has received samples and signed the Chain of Custody Record, retain the yellow copy for the Lab files. Send the white copy and express ticket to ERM-Southeast at the address shown.

CHAIN OF CUSTODY RECORD

ERM-SOUTHEAST, INC
7106 Crossroads Blvd
Suite 228
Brentwood, TN 37027
(615) 373-3350

PROJECT NAME		Fish Study		PROJECT LOCATION		Edgemoon SC	
PROJECT NO		4577		PROJECT CONTACT		Jim Orr	
CLIENT REPRESENTATIVE		JPO		PROJECT MANAGER		JPO	
TELEPHONE NO		615 373 3350					
SAMPLE ID	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (Include Matrix and Point of Sample)	NUMBER OF CONTAINERS	
SV107-20	4/25/01		X		Fish	1	
SV106-21			X			1	
SV641-22			X			1	
SV641-23			X			1	
SV641-24			X			1	
SV642-17			X			1	
SV642-18			X			1	
SV642-19			X			1	
SV642-20			X			1	
SV642-21			X			1	
SV642-06R			X			1	
SV642-20 641-27			X			1	
TB-6					Water	1	
PB-6					"	1	
Relinquished by (Signature)		James P. Orr		Date / Time		4/26/01 1000	
Relinquished by (Signature)				Date / Time			
Relinquished by (Signature)				Date / Time			
Received by (Signature)		JPO		Received for Laboratory by (Signature)		JPO	
Relinquished by (Signature)				Date / Time		4/27/01 1030	
Relinquished by (Signature)				Date / Time			
Remarks		7.40L		SAMPLERS (Signature)			

(615) 373-3350

(615) 373-3350

PROJECT NAME		PROJECT LOCATION		PROJECT CUSTODIAN RECORD	
PROJECT NO.	PROJECT CODE	PROJECT NAME	PROJECT LOCATION	PROJECT CUSTODIAN	PROJECT CUSTODIAN
4577	1100	1100	1100	1100	1100
CLIENT REPRESENTATIVE		PROJECT MANAGER		ANALYSES REQUESTED AND REMARKS	
SAMPLE ID		DATE	TIME	COMP	GRAB
SAMPLE DESCRIPTION (Include Matrix and Point of Sample)		NUMBER OF CONTAINERS			
SD-001		4/24/10	1120	X	
SD-002		4/24/10	1120		
SD-003		4/24/10	1120		
SD-004		4/24/10	1120		
SD-005		4/24/10	1120		
SD-006		4/24/10	1120		
SD-007		4/24/10	1120		
SD-008		4/24/10	1120		
SD-009		4/24/10	1120		
SD-010		4/24/10	1120		
SD-011		4/24/10	1120		
SD-012		4/24/10	1120		
SD-013		4/24/10	1120		
SD-014		4/24/10	1120		
SD-015		4/24/10	1120		
SD-016		4/24/10	1120		
SD-017		4/24/10	1120		
SD-018		4/24/10	1120		
SD-019		4/24/10	1120		
SD-020		4/24/10	1120		
SD-021		4/24/10	1120		
SD-022		4/24/10	1120		
SD-023		4/24/10	1120		
SD-024		4/24/10	1120		
SD-025		4/24/10	1120		
SD-026		4/24/10	1120		
SD-027		4/24/10	1120		
SD-028		4/24/10	1120		
SD-029		4/24/10	1120		
SD-030		4/24/10	1120		
SD-031		4/24/10	1120		
SD-032		4/24/10	1120		
SD-033		4/24/10	1120		
SD-034		4/24/10	1120		
SD-035		4/24/10	1120		
SD-036		4/24/10	1120		
SD-037		4/24/10	1120		
SD-038		4/24/10	1120		
SD-039		4/24/10	1120		
SD-040		4/24/10	1120		
SD-041		4/24/10	1120		
SD-042		4/24/10	1120		
SD-043		4/24/10	1120		
SD-044		4/24/10	1120		
SD-045		4/24/10	1120		
SD-046		4/24/10	1120		
SD-047		4/24/10	1120		
SD-048		4/24/10	1120		
SD-049		4/24/10	1120		
SD-050		4/24/10	1120		
SD-051		4/24/10	1120		
SD-052		4/24/10	1120		
SD-053		4/24/10	1120		
SD-054		4/24/10	1120		
SD-055		4/24/10	1120		
SD-056		4/24/10	1120		
SD-057		4/24/10	1120		
SD-058		4/24/10	1120		
SD-059		4/24/10	1120		
SD-060		4/24/10	1120		
SD-061		4/24/10	1120		
SD-062		4/24/10	1120		
SD-063		4/24/10	1120		
SD-064		4/24/10	1120		
SD-065		4/24/10	1120		
SD-066		4/24/10	1120		
SD-067		4/24/10	1120		
SD-068		4/24/10	1120		
SD-069		4/24/10	1120		
SD-070		4/24/10	1120		
SD-071		4/24/10	1120		
SD-072		4/24/10	1120		
SD-073		4/24/10	1120		
SD-074		4/24/10	1120		
SD-075		4/24/10	1120		
SD-076		4/24/10	1120		
SD-077		4/24/10	1120		
SD-078		4/24/10	1120		
SD-079		4/24/10	1120		
SD-080		4/24/10	1120		
SD-081		4/24/10	1120		
SD-082		4/24/10	1120		
SD-083		4/24/10	1120		